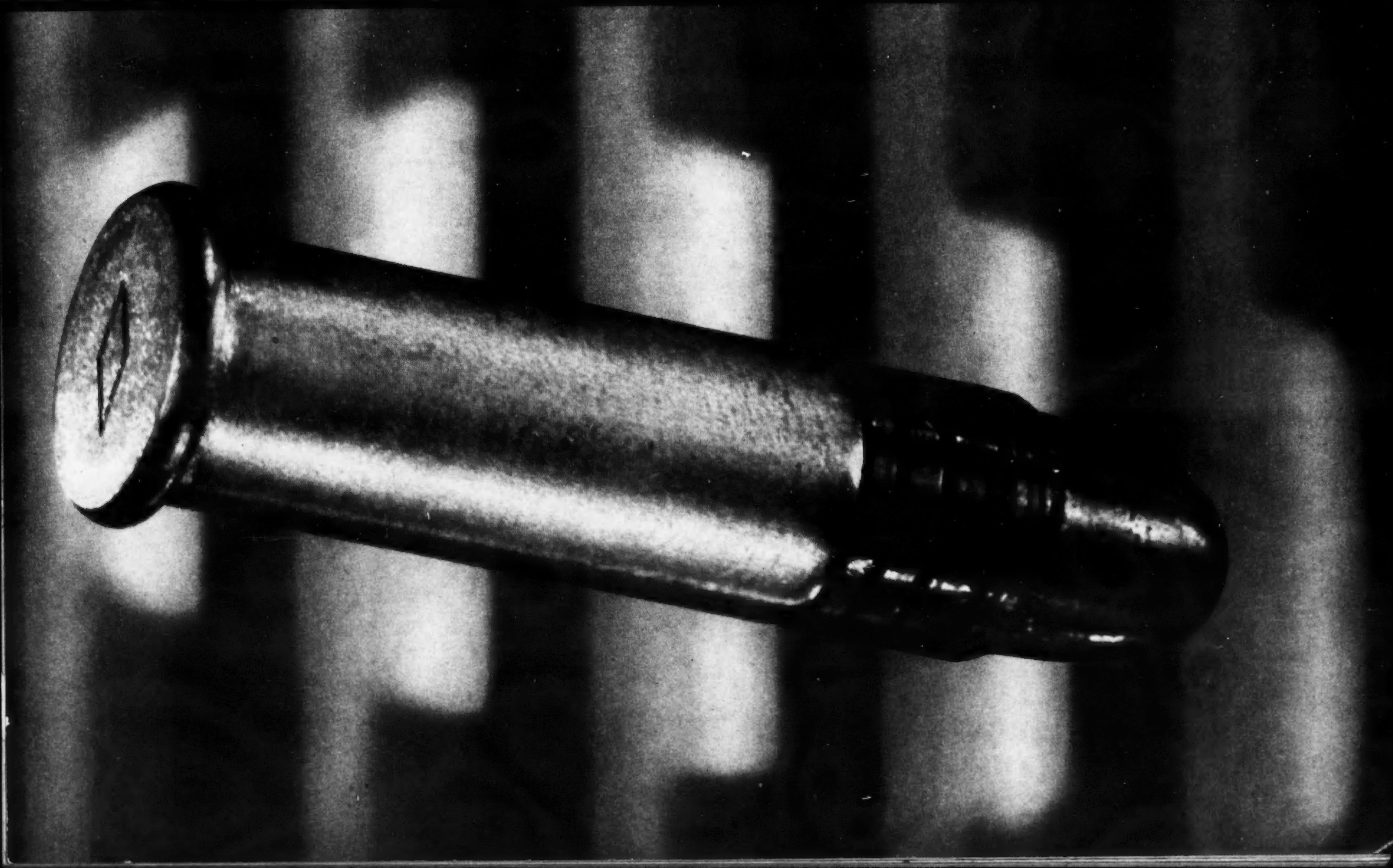
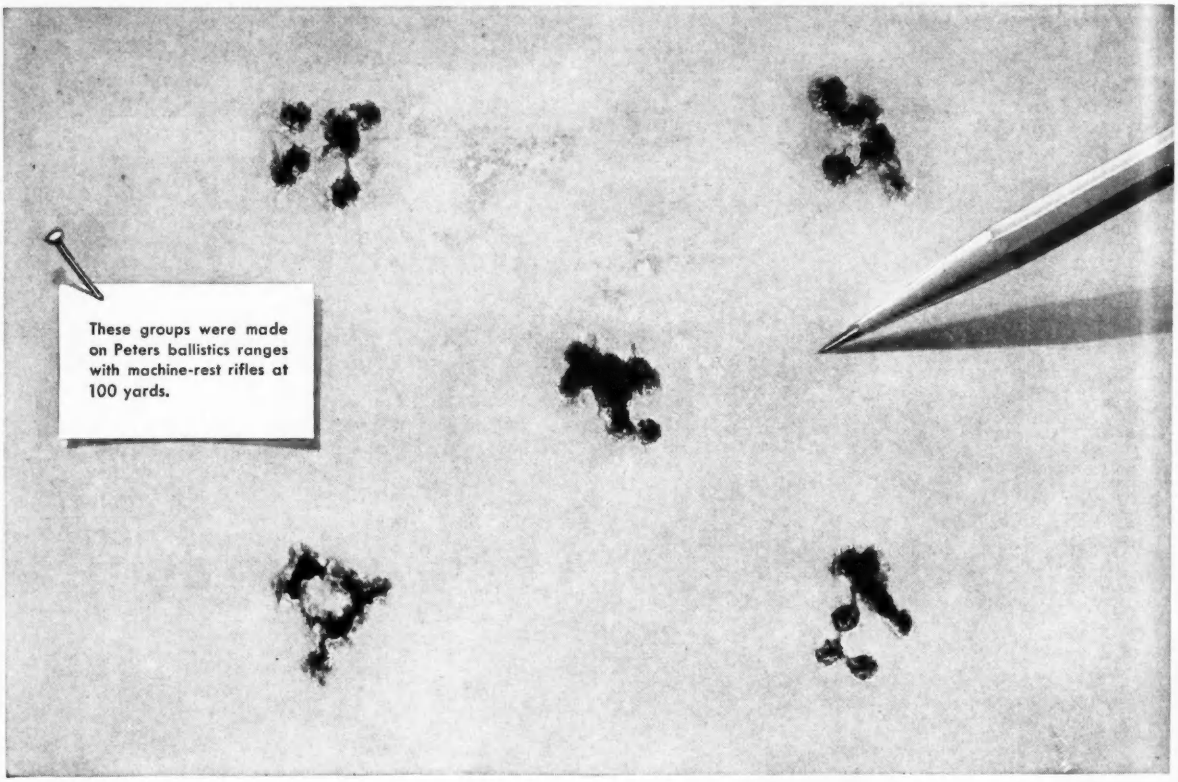
25
CENTS

AMERICAN RIFLEMAN



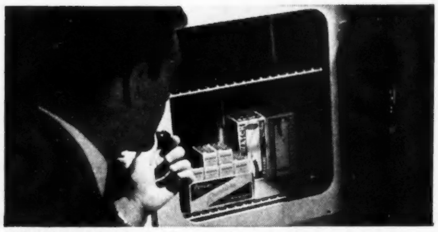


These groups were made on Peters ballistics ranges with machine-rest rifles at 100 yards.

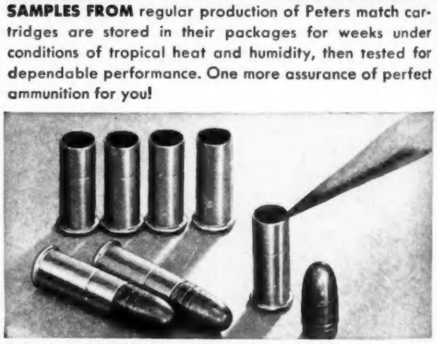
Proved for Possibles

HOW UNIFORM are Peters match cartridges? Perfectly uniform from cartridge to cartridge, box to box, case to case, to an amazingly fine degree. This uniformity is built in through quality control on the production line and precision testing in Peters laboratories. And it's *guaranteed* by the Peters system of test-firing, from rifles in machine rests, control-samples of every lot produced. *A large percentage of the rifle groups made on Peters ballistics ranges at 100 yards can be covered by a 25¢ piece!*

Next time you "sight in," squeeze the trigger on Peters "Police Match" or Peters "Dewar Match" 22's . . . and, for all-round range work, Peters "Target" 22's. Remember! *There's no more accurate rim-fire ammunition in the world!*



SAMPLES FROM regular production of Peters match cartridges are stored in their packages for weeks under conditions of tropical heat and humidity, then tested for dependable performance. One more assurance of perfect ammunition for you!



FROM THE CRIMP OF THE CASE...to sameness in bullet, primer, and powder, testing for perfect uniformity is the theme in the production of Peters match ammunition.

PETERS
PACKS THE POSSIBLES

PETERS CARTRIDGE DIVISION — *Remington Arms Company, Inc., Bridgeport 2, Conn.—"Dewar Match" and "Target" are Reg. U.S. Pat. Off.—"Police Match" is a trademark of Peters Cartridge Division.*

50 PETERS
DEWAR MATCH
22 LONG RIFLE
PETERS
DEWAR MATCH
AMMUNITION
POLICE MATCH
Rustless
MATCH
50 RUSTLESS
TARGET
22 LONG RIFLE
RIM FIRE CARTRIDGES
TARGET

HOW TO DO WONDERS ON AN ACRE!

Tells About All These and More

DWARF TREES
Fine Large Fruit In 2 Years!

2 LB. CHICKENS
Tenderest Broilers In 8 Weeks

40-LB. HONEY PER HIVE
Only 8 Hours of YOUR Time Needed Per Year!

YOUR OWN HOME
Especially Designed for Country Life

YOUR SMALL BARN
Cuts Chore Time to Amazingly Few Minutes

LOW-COST GREENHOUSE
Automatic Heat Control; Self-Waterer

MODERN RABBIT HUTCHES
Rabbits Are Delicious, Nutritious—Profitable, Too

PIGS ON CONCRETE
Gain Weight Faster—Keep Clean

BETTER COMPOST
Easier, Quick Way to Make It

TURKEYS THRIVE
New Scientific Sunporch Makes Small Flock Practical

GROW FISH
How To Construct a Fish Pond On Your Own Site

WOODLOT
Proper Management of ½ Acre Gives Permanent Fireplace Supply

QUICK FREEZERS
Have Changed Country Life Completely

BABY TRACTORS
Inexpensive Models Worth Looking Into

SCORES OF DIAGRAMS
To Show You How To Do Things The RIGHT Way

IT'S almost beyond belief what you can do today in spare time on a little land of your own! New prolific plants; new chemicals that control pests, kill weeds selectively, quicken growth! New specialized breeds of poultry and livestock and better ways to get results from them! Scientifically planned small barns; country homes especially designed for country living; landscaping plans that add 20% to the value of a place in 5 years! Quick freezers; new home equipment. Let me tell you how to HAVE MORE in every way on YOUR place!

Ed Robinson

I have spent five years gathering the newest and best knowledge for you, experimenting at our own little place, "trading" methods and ideas with experts and amateurs all over the world. (Perhaps you've seen the stories about our 2-acre "miniature" farm in the Saturday Evening Post, Reader's Digest, Better Homes and Gardens, etc.)

During those five years I found out a wealth of information which would have been of tremendous value to me when we started "homesteading." It will be of tremendous value to *you* with the garden, farm, or country home you now have—or hope to have some day soon! As one of our new friends writes us from Illinois, "Our homestead is beginning to take form very nicely, but I wish we had had the 'Have-More' Plan 6 years ago!"

What Do You Want to Know About Country Living?

Do you want a bearing orchard *with a fruit crop in 18 months?* Do you want to raise a year's supply of tender chickens in 9 weeks—in a 3 x 4 foot space? Do you want fast-growing shade trees, growing 2½ feet instead of only 6 inches a year? Do you want to raise a pig without buying his feed? Do you want a small greenhouse anybody can afford, one that waters plants and controls heat automatically? *Do you want complete, simple details and plans for virtually every sort of practical country living "project" there is? Here is YOUR OPPORTUNITY!*

Your Year 'Round Guide

All this information, plus a goldmine of inspiration for those who want to get away from the city and really begin to live, has been packed into our "Have-More" Plan . . . which the *Magazine Digest* calls, "Utopia on Two Acres."

Here for only one dollar, within the covers of one book—in 70,000 words, 255 pictures and diagrams, 43 chapters—you will find *exactly* the guidance you need to do wonders on *your own* place. Naturally, no one family would undertake more than a few of these projects at a time. But they're *all* here—to look over and to CHOOSE FROM.

I suppose you could read entirely through our "Have-More" Plan in little more than an evening. Yet you'll find that it becomes your year-long constant guide and source of information.

ACT NOW. Don't hesitate. If it's not all I promise and more, it costs you nothing. Send the coupon to me now—for your own sake! **Ed Robinson, P.O. Box 5105, Noroton, Conn.**

THE
"HAVE-MORE" PLAN
"A LITTLE LAND— A LOT OF LIVING"
How to Make a Small Cash Income into the Best and Happiest Living Any Family Could Want
BY
Ed and Carolyn Robinson

Examine It FREE!
Only $1.00 if you decide to keep it

"This is the way we want to live the rest of our lives . . ."

FIVE years ago we lived in a big apartment house in New York. I had a pretty good job. I suppose you could say that I was a "success."

But deep in our hearts, we knew we were not really *living*. We never seemed to be in good health. When the year ended, all I had left from my "success" was a great big bundle of cancelled checks. Most important of all, our son Jackie was missing the healthy, out-of-door upbringing every kid should have.

A Better Way of Life

Today we Robinsons not only feel better and live better . . . but I know we are secure—and independent. On our 2-acre suburban Homestead, we raise chickens, plenty of fresh eggs, a variety of vegetables, milk, butter and cream—plus pork and bacon at 25¢ a pound, plump geese, honey (over 90 lbs. last year), fruit from our dwarf trees, berries, etc. It's all the result of planned *spare-time* farming on a highly productive scale.

Carolyn and I have put the whole story into an 84-page illustrated book—which is yours for FREE EXAMINATION. Costs only $1 if you decide to keep it. Just send the coupon below.

Ed Robinson.

All This - - AND MORE - - for ONLY $1

1. Setting Up a Homestead
2. Houses Especially Designed for Country Living
3. Plan a "Harvest Room" With Your Wife
4. A Little House Can Grow
5. Score Card for Buying Country Property
6. Water, Sanitation, Electricity, Roads
7. Landscape Your Place—Increase the Value 20%
8. Plans for a Small Barn
9. Importance of Raising Part of Your Food
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11. Vegetable Planting Chart
12. The Kind of Berries and Grapes Money Can't Buy
13. Two Ways to Have Tree Fruits on a Small Place
14. Fresh Eggs from Your Own Hens
15. New, Easy Way to Raise the Tenderest Chicken
16. Geese Grow on Grass
17. Turkeys Can Be a Profitable Side Line
18. Ducks are Easy to Raise
19. Rabbit is Delicious—Costs Less to Produce
20. Ham, Bacon, Pork, Lard—a few cents a pound
21. The Miniature Dairy
22. Modern Dairy Goat—2-4 Quarts a Day
23. A Few Sheep for the Small Place
24. Bees—No Sugar Shortage Here
25. Quick Freezers
26. Cold Frames, Hotbeds, Small Greenhouses
27. Grow Your Own Fish!
28. The Woodlot
29. Transportation and Power
30. Setting Up a Home Workshop
31. Earning Money in the Country
32. Most Helpful Reference Books

SEND NO MONEY *(Unless You Prefer To)*

Ed Robinson, P. O. Box 5105, NOROTON, CONN.

Dear Ed: Please send me a copy of your "Have-More" Plan. If I decide to keep it, I'll send you one dollar, plus the ten cents it has cost you for postage, packing and handling. If it doesn't please me, I'll send it back, owe you nothing, and we'll still be friends.

YOUR NAME ....

ADDRESS ....

CITY .... *Zone No. (if any)* .... *STATE* ....

If you'd prefer to send a dollar now, that will be fine—save me a lot of record keeping and save YOU the ten-cent shipping charge. I'll give you DOUBLE your money back if you return the plan for any reason in 10 days. That's how sure I am you'll like it.

OMICRON Z-2 and Z-4

125% more field area! Central focusing, positive lock. Independent windage and elevation adjustments. Hard coated lenses.

Z-2: Magnification, 2½x. Field at 100 yds. 60 ft.! Eye relief 2¼" to 4". 1" tube dia. Wt. 10 oz. Length 9½". Objective dia. 24 mm. Eye lens dia. 36 mm. . . **$75.00**

Z-4: Magnification, 4x. Field at 100 yds. 42 ft.! Eye relief 2¼" to 4". 1" tube dia. Wt. 10½ oz. Length 10½". Objective dia. 24 mm. Eye lens dia. 36 mm. . . **$75.00**

OMICRON ZL-5

5 power. Field at 100 yds. 22 ft. Eye relief 3¾" to 6". 1" tube dia. Wt. 12½ oz. Length 15½". Objective dia. 45 mm. Eye lens dia. 36 mm. Luminosity 81. Hard coated lenses, independent elevation and windage adjustments . . . **$110.00**

VECTRA RIFLESCOPE, 2½ power	**$29.95**
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WEAVER K-4 SCOPES	**$45.00**
WEAVER K-2.5 SCOPES	**$37.50**
WEAVER J-4 SCOPES	**$27.50**
WEAVER J-2.5 SCOPES	**$22.50**
WEAVER G-6 SCOPES	**$12.50**
WEAVER G-4 SCOPES	**$ 9.75**
G88 SCOPES, 2½ and 4½ power	**$50.00**
LYMAN ALASKAN SCOPES	**$60.00**
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OBSERVATION SCOPES

Argus 20-power	**$74.50**
Saturn 20-power	**$25.00**

SCOPE MOUNTS

Echo	**$17.50**
Griffin & Howe	**$25.00**
Redfield Jr.	from **$10.75** to **$14.75**
Stith Q.E.D.	from **$12.00** to **$17.50**
Type U Weaver	**$ 6.25**
Tilden	**$16.50**
King-Pike	**$17.50**

Installation charge quoted on request

CUTTS COMPENSATORS (with choice of any two tubes)	**$17.80**
Additional tubes, each	**$ 2.95**
Installation on plain barrels	**$ 5.00**
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POLY CHOKES (installed) . . **$14.75**
Note: send barrel only

PFEIFER MADE
RIFLE BARREL BLANKS
UNTURNED OR PRETURNED

Furnished preturned in 3 sizes to give muzzle dimensions of .650, .750 and .890; 28 inches long at additional $2.50 net, each.

Calibers 22, 25, 270, 7 mm, 30, 35 and 375 are considered standard.

Calibers 40 and 45, special order, subject to delay. Special twists at no added charge.

Price $21.50, F.O.B. Beverly Hills, Calif.

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Latest price information on all loading equipment, gun supplies and accesories are now available. Drop us a note and we will send them to you promptly.

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Discount to dealers and gunsmiths

MOFFAT .224 BULLETS

Precision-made, these bullets are most uniform in wt. and dia. available. Designed for velocities of 3600 ft. per sec. Reliable expansion; highly polished to guarantee abrasion-free jackets. 6 cal. Ogive. Per 100: 45 gr., $2.15; 50 gr., $2.20; 55 gr., $2.30.

CUSTOM BARREL SERVICE
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Springfield, Enfield, Mauser, etc. Rebarreling in following calibers: 30-06, .270 Win., .22/250, .257 Roberts, .300 H&H mag., .35 Whealan, 30/40 Krag, .220 Swift, etc. Installed, blued and turned to customer specification **$55.00**

CRAMER LUBRICATOR AND SIZER

Cast of Meehanite. Ideal for hard bullet metals such as Type metal or Kirksite A. Grease reservoir operates under 300 lbs. pressure, enabling user to size many bullets with one pressure setting (approx. 35 bullets of .38 cal.). All dies are hardened, inside surfaces micro-finished **$17.50**

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Available in following calibers: 22, 25, 270, 7 m/m, 30, 8 m/m, 35, 38 Spl., 45 ACP, in two cavity moulds. 3, 5, or 10 cavity moulds on special order subject to short delay.

2 cavity	**$10.50**	5 cavity	**$22.50**
3 cavity	**$12.50**	10 cavity	**$50.00**

CRAMER PRESSURE LEAD DIPPER	**$ 2.50**
CRAMER BIG DIPPER	**$ 1.25**
CRAMER 3-pc. MELTING POT	**$ 7.50**

SAECO TRU-SPEED PRECISION POWDER MEASURE

Adjustable Rifle Model	**$12.50**
Adjustable Pistol Model	**$12.50**
Extra Drum to combine above	**$ 4.00**
Bench Stand	**$ 3.25**

POTTER ELECTRIC FURNACES

Model C single element, 450 unit	**$15.00**
Model D double unit, 750 watt, for use with 3-cavity and larger moulds	**$20.50**

PRIMERS (Winchester)
Available in following sizes: 108, 111, 115, 116 and 120 . . . per thousand **$ 6.30**

CURLY MAPLE LOADING BLOCKS
New and attractive. Lacquered finish. Holes uniformly bored. Holds 50 rounds. Choice of 30.06, 300 magnum or .38 Special $1.35

O'Dell's Scope Mount for pistol cases, $4.50

KERR'S
The BEST of Everything for the Sportsman

9582 Wilshire Blvd., Beverly Hills, California

RIFLEMAN WORDS • • • •

Each month this "lexicon for shooters" is devoted to a few words peculiar to the shooting game which may be puzzling to the newcomer. All words defined are used in a current article.

BLOOD SPOOR—A blood trail such as is left by a wounded animal.

CLAY BIRD—A disc-shaped shotgun targe constructed to shatter when struck by one or more shot pellets. Launched by spring-loaded traps, they are used in trap and skeet shooting.

DOUBLE RIFLE—A rifle with two separate barrels, usually side by side. These rifles are made similar to a double-barreled shotgun.

FOCUSING—Adjusting the lenses of an optical instrument, such as a scope or binocular, so that an object viewed is projected with maximum sharpness to the individual eye.

FULL-JACKETED BULLET—A bulle which, with the exception of a small area in the center of the base, has a single jacket covering the entire core. Most bullets manufactured in the U. S. have copper-alloy jackets. Full-jacketed bullets are sometimes referred to as full-patch bullets.

LAMINAR FLOW—Viscous flow or flow along fixed streamlines which are paralle to the walls of the object past which flow is taking place.

MACHINE REST—A mechanical device arranged for holding a firearm while testin it. Machine rests of various designs are used to hold rifles, pistols, or revolvers t eliminate human errors when testing fo accuracy.

MAGAZINE FOLLOWER—A metal par fitting into the magazine of a gun which being spring loaded, keeps the ammunitio feeding through the magazine as the t cartridge is stripped out and carried int the chamber by the action mechanism.

MUZZLE ENERGY—The kinetic energy o a bullet or shot charge as it leaves th muzzle of a gun. The bullet or shot lose energy in flight as the square of the velo ity loss.

OCULAR TUBE—The tube in a scope o binocular which holds the ocular or e lens or lenses.

PRIMING—A high explosive sensitive t friction, impact, or heat. Typical primar explosives are fulminate of mercury, lea azide, and lead styphnate. These a used in cartridge primers or for initiatin the detonation of secondary high explosive such as TNT or tetryl.

SCATTERGUN—A term often used in r ferring to a shotgun.

SEMIAUTOMATIC—A weapon whic loads automatically from a magazine b so constructed that it will not fire au matically. The trigger must be pulled f each cartridge fired.

STRIKER—That part of the firing mecha ism which makes direct contact with t head of the cartridge and fires the prime

SWAGING—Forging or shaping metal u der the blow of shaped tools. Lead bulle and cores of jacketed bullets are swag cold in a die with a blow from a pun The punch and die are held in what known as a punch press.

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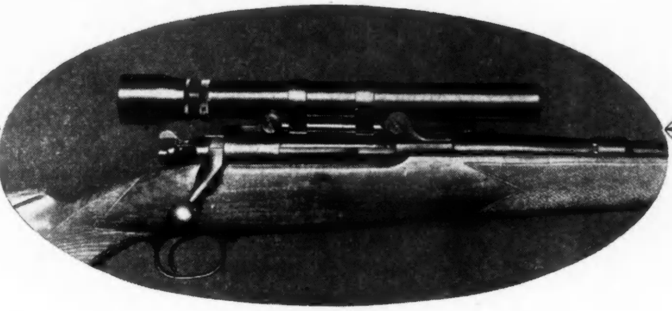


Advance Announcement....

BAUSCH & LOMB

VARIABLE-POWER HUNTING SIGHT

The Engineering Division of Bausch & Lomb Optical Company announces with pride the result of more than two years of development—the Bausch & Lomb Variable-Power Telescopic Hunting Sight and mount. In this design, optical and mechanical principles have been incorporated which provide noteworthy advantages.

VARIABLE POWER. Power of magnification is 2½ to 4X. Change in the full range of power is made by a quarter-turn of the knurled ring at the eyepiece end. Change between extremes in power does not change focus, eye distance, or zeroing.

EXTERNAL ADJUSTMENT. The telescope itself includes no mechanism for adjustment except those for focusing, and for changing power. Reticle cross-hairs are always centered on the axis of the optical system. Elimination from the telescope itself of delicate and fragile mechanisms for lateral and vertical adjustments makes for sound engineering design. The Bausch & Lomb sight is designed and built to withstand rough use without impairment to permanence of adjustment accuracy.

WINDAGE AND ELEVATION. These adjustments are absolute and continuously adjustable and are accomplished by adjustment *in the mount* of machined conical spools which support the telescope in solid 4-point contact with the 'scope barrel. Adjustments are made secure by flat locking buttons which may be operated by screw driver, coin, or an ordinary nail.

ONE SIGHT FOR ANY NUMBER OF GUNS. The telescope is held in the mount under strong spring compression. It may, however, be easily removed from one mount and placed in another. One telescope may be used with several rifles, the various arms each being equipped with mounts. Mounts will be available for all popular hunting rifles, and for most may be attached without drilling or tapping special holes. When windage and elevation adjustments have been made, the telescope may be removed and replaced in the mount repeatedly exactly zeroed without altering these adjustments.

SUPERIOR OPTICALLY. The feature of variable power in no way detracts from optical performance. In fact, if the 'scope were designed for fixed power of either 2½ or 4X, it would not have been different or better. Optical performance of the high Bausch & Lomb standard is guaranteed. All optical surfaces are Balcote anti-reflection coated for high light transmission. All standard-design reticles will be available.

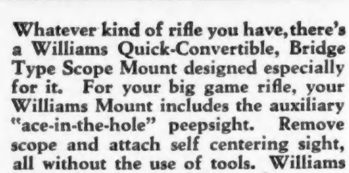
AVAILABILITY. Announcement of delivery and price will be made as soon as possible.

BAUSCH & LOMB

OPTICAL COMPANY B&L ROCHESTER 2, N.Y.

. . . there's a **Williams** QUICK-CONVERTIBLE Scope Mount FOR **Your** RIFLE!

Whatever kind of rifle you have, there's a Williams Quick-Convertible, Bridge Type Scope Mount designed especially for it. For your big game rifle, your Williams Mount includes the auxiliary "ace-in-the-hole" peepsight. Remove scope and attach self centering sight, all without the use of tools. Williams Scope Mounts are designed by expert gunsmiths—each mount has proper ring spacing for perfect balance with minimum overhang—scope can be moved in rings for eye relief adjustment. There's nothing like it anywhere. Quick-Convertible, complete with peep sight—$17.50.



There's a Quick-Convertible Mount for the NEW Remington big game 721 rifle. Pictured, the new M721, 30-06 with Alaskan scope and Varmint Master. Note ring spacing gives maximum strength and minimum overhang. Q-C Mounts for most big game rifles—$17.50.

Williams Quick-Convertible Mount on Remington 241, 22 caliber with K-2.5 Weaver—the ONLY MOUNT PROPERLY DESIGNED FOR THIS RIFLE. "Take down" does not interfere with mount. Rifle can be breech cleaned without touching sighting assembly or changing zero. Q.C. Mount without peepsight for $15.00.

SIDE MOUNTS, TOO!

Williams Quick-Detachable Side Mount made for top-ejecting, lever-action rifles (and some others). The Quick-Detachable, also available in top mounts, is removable in a flash with "push button" release—NO TOOLS $12.50

Write for Additional Literature

OTHER WILLIAMS PRODUCTS

White-centered "Dial Scoring" Targets—Sling Straps, including the new Williams Lightweight "Guide" model Carrying Strap—Sling Strap Swivels—Scopes—Sights—and other accessories carried in stock regularly.

Life Member—American Gunsmith Guild
Life Members—National Rifle Association

WILLIAMS GUN SHOP
INCORPORATED
ON THE RANGE
7387 Lapeer Rd., Davison, Mich.

Ricochets . . .

STRAP, RIFLE SLING

Ellensburg, Wash.

Editor:

I wish to offer my deepest sympathy to those of the United States Marine Corps who are now crying in their beer since your colorful April cover slapped them in the face.

Stop me if you have already heard this, but this fellow's poor old top kick had better give him at least one more day on the range in which to learn the correct use of two issue straps, i.e., strap, helmet, and strap, rifle sling.

May our next symbolic cover photo be more flattering to the service it portrays.

C. R. CHARTRAND

Albion, Ind.

Editor:

During eight tours of duty at National Matches, I witnessed members of the Marine Corps teams make many winning scores, but I believe they did not twist the strap as shown on the cover of the April RIFLEMAN.

CAPT. ALBERT BLACK

Salem, Oregon

Editor:

The pic on the April cover made two Leathernecks on recruiting duty here blow their corks. . . . The two of us were coaches at the Camp Matthews rifle range in 'Dago' for quite some time and we don't know of any self-respecting Marine coach who would ever permit a man to tie himself up in his sling in that manner.

M/SGT. LOUIE E. PAINTER, USMC.
M/SGT. GEORGE E. BARTLETT, USMC.

AFRICAN HUNT

Plattsburg, New York

Editor:

With due respect to Kristin Sergel for her prowess in using a .375 Magnum, I wish to state my hearty disapproval of this type of hunter.

Africa is one of the few places on earth where an abundant supply of game still exists. Even this once great supply is now rapidly being exhausted. As a matter of fact, the situation is so bad that the fees for hunting licenses for visitors cost £75, plus fees of £50 and £100 for the first and second elephants. As such, it is now only a rich man's sport.

CHARLES F. MORRIS

Nassau, New York

Editor:

What I would like to know is—what becomes of all that meat? For instance, that big pachyderm Mrs. Sergel is sitting on. After all, there can be no arctic weather in Africa.

ABEL MERCHANT

Menahaga, Minn.

Editor:

The Kristin Sergel story was great! It gives me pleasure to see the little lady put the bee on some of the soft-shouldered gun writers who advise pea shooters for big game. The .375 is a better . . . cartridge . . . for larger game. Our game is too valuable to be wounded and left to die in the bush, which often happens with smaller calibers.

C. M. O'NEIL

Butte, Mont.

Editor:

. . . I am a bit confused about the ty gun the young lady is holding broad on bull in your April issue, page 13.

CLAUDE E. SAMPSON

Old Deerfield, Mass.

Editor:

That's a fine article of Mrs. Sergel's a beautifully written, but the rifle she is hold ing on the elephant isn't the .375 Magnu It certainly looks more like an English doub rifle.

F. P. L. MILLS

CRISIS

Glenbrook, Conn.

Editor:

Congratulations on your editorial, 'Passi for Crisis,' in the March RIFLEMAN. It one of the sanest things that I have read a long time.

JOHN E. FRENZEL

THAT GADGET

Edmonds, Wash.

Editor:

A tip to Mr. Whitehead ('Ruffed Grou Frustration,' RIFLEMAN, March, page 3 Instead of removing the gadget put on the guns by the silly manufacturers called 'safety,' why not cut off the trigger gua or saw an inch or two off the butt if we m get rid of another ounce. I like this meth much better than Mr. Whitehead's, for I ha on occasions stumbled and I like my hu ing partners to live on.

LAURENCE E. LUMSDEN

PINEHURST, N. C.

Salisbury, N. C.

Editor:

In E. B. Mann's article, 'Little Sure Sho published in April issue, he stated on pa 44 that Annie Oakley "lived for some yea at Pinehurst, South Carolina." This wrong. Pinehurst is in North Caroli about 40 miles from Fayetteville, site of F Bragg.

R. I. ZUMBRUNNEN

NORTH OF METLAKATLA

Fairbanks, Alaska

Editor:

It is quite disappointing to see an arti such as the 'Self-Loaded Gunnerman' (Fe ruary, page 11) practically ruined by author's desire for the sensational at the e pense of truth and fact.

It is difficult to imagine anything farth from the truth than F. Wallace Taber's sta ment that any Sourdough north of Metlaka (which means practically all of Alask would christen Sarber the world's great bear hunter, having shot more black, brow grizzly, Kodiak, and polar bears than a man alive or dead.

Such stuff as that in print, especially in magazine which is looked to for reliable formation, is largely responsible for ne comers coming up here killing anything th see. . . . Suggest you throttle the hot-air m chants.

H. FRANCIS

N. Y. SENATE BILL 1150

Albany, New York

Editor:

At times a Legislator is called upon sponsor legislation by groups who, for most part, are of the highest possible ch acter. However, because the Legislator ta the group for granted, at times legisla is requested by them which is not in the p lic interest, and if the Legislator had b

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given more time to consider he would have refused to allow his name to be used to sponsor it.

Such a piece of legislation was my Senate bill Int. 1150 (RIFLEMAN, April, page 47). On the surface it seemed a very innocuous piece of legislation. A legal association of high caliber had asked me to sponsor it. Therefore, I considered it, because of their recommendation, good legislation. It now appears, however, because of the multitude of friendly criticism that I have received regarding this legislation that it is not in the interest of the people whom I hope to consider among my best friends, sportsmen. With this in view, I have asked that the bill be amended removing the enacting clause which, in layman's English, means the bill is killed.

Thank you for your letter regarding the piece of legislation because it is only such forthright expressions of opinion from an enlightened citizenry that good legislation can be passed.

With kindest personal regards,

C. COREY MILLS

UNSATISFACTORY DEAL

Eagle Point, Oregon

Editor:

Many thanks for the check of $46.00 to reimburse me on account of an unsatisfactory deal with one of your advertisers.

Your disposition of the matter is unexpected and, to put it mildly—flabbergasting. As a long-time professional advertising man with much experience with newspapers and magazines, I have for the first time the experience of being related to a publication which obviously has a deadly serious responsibility to the subscriber.

Of course, I realize now more than ever that the National Rifle Association is a *members'* organization and not a publishing business (not that there is anything necessarily wrong with the publishing business or any other business), and frankly it crystallizes my long-time desire to be a Life Member. I herewith apply for Life Membership.

THOMAS G. STALEY

BROWNING PATENTS

Fairfield, Penna.

Editor:

My article on Browning's pistols in the RIFLEMAN, November, page 33, stated that his first pistol patent was issued in 1897. Along comes a letter from L. P. Cedarholm of Hayward, Calif., stating that he has one of those first 1900 Model Colt pistols and that the magazines (two of them) are stamped 'Pat'd Sept. 9, 1884.'

Charlie Haven, co-author with Frank Belden of *A History of the Colt Revolver*, tells me that Patent No. 304,712 was issued on that date to Louis D. Diss, assigned to E. Remington & Sons, Ilion, New York. This patent covers detachable metal magazines as an improvement on the Remington-Lee type, chiefly in the cartridge-retaining lips and the method of manufacture by folding the sheet metal around from the front and joining it at the back. Browning and Colt used these patents on the magazine, and early magazines were stamped with this patent date until expiration in 1901. Before the Model 1902 pistol appeared, this stamping had been abandoned.

Hope that this will clear up the mystery for our collector friends.

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Incidentally . . .

We've been wondering lately whether or not we are doing the job RIFLEMAN readers want as far as our technical articles are concerned. How technical is technical, we keep asking ourselves. The Reichert article on binoculars in this issue is a case in point. Obviously, sportsmen want to know about binoculars, just as they want the facts on every other tool of their hobby . . . or for some, their livelihood. But *how much* do they want to know? Is there too little detail in that article, or too much? Do they want such figures as comparative exit pupil sizes . . . RLE . . . effective objective diameter? Or should RIFLEMAN authors and editors "predigest," as it were . . . form an opinion from those figures, analyze competitive products, and give an opinion rather than printing a lot of facts and figures which readers may not want to bother with. That's what is troubling us. As far as we're concerned, RIFLEMAN readers can call the turn. We'll do what we're told, if enough people will just tell us!

So, if you haven't anything better to do this evening, drop us a line. Let us know which technical articles of the last few months carried the greatest appeal . . . Lyon on lens coating, for instance, in the January issue . . . or the more popular appeal of Golueke's bolt-handle alterations (March) . . . Reichert on binoculars . . . French on chronographs (December-January) . . . or the popular picture technique of this issue's story on the manufacture of ammunition.

As we said before, it's up to you. We'll take orders, if you'll just give them.

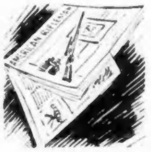
☆ ☆ ☆

And speaking of articles, Walter Rodgers continues to win friends. His latest (Deerslayer's Gun, RIFLEMAN, March) drew as enthusiastic a barrage of letters as did his first published work . . . "Gun Feel," in the January issue. It's becoming obvious that RIFLEMAN readers, as a group, have only one thing in common. They all like to shoot. But there the uniformity ends. We're learning (as if we didn't know it already) that there are just as many dyed-in-the-wool lever action fans as there are adherents of the super-duper wildcat Magnums touted by Keith, Hagel, Barr, et al. If there was ever any doubt in our minds, the response to a few recent articles finished it off. Walter Rodgers' stories struck a responsive enough chord, and "Little Eva" . . . H. V. Allen's battered, game-getting lil' .30-30 (RIFLEMAN, February) . . . carried the ball from there. Reports Art Director Jim Berryman, back from a vacation trip to Arizona's Rimrock country: "When those wranglers saw that picture of Allen's Winchester 94, and read the story, they went after the RIFLEMAN like hungry coyotes on a chicken farm."

Fortunately, that conflict is one thing we don't need any help on. We can manage to strike a balance between the two camps without much trouble . . . as long as eager RIFLEMAN authors continue to push their respective interests. And it doesn't seem likely that there'll be any let-up in that direction.

☆ ☆ ☆

For Springfield owners, and for those NRA members who didn't get in under the gate this time, but who will have to wait for their DCM rifle until sales are resumed some time late this year . . . a coming series that will include directions for remodeling the Springfield to any degree of elaborateness, from what the author calls "the minimum sporter," which you basement mechanics can make with a few tools and a little ingenuity, to that sleek custom-stocked sporter you've dreamed about building one of these days. The author is a photographer, incidentally, and there'll be plenty of pictures with each article to make the directions clear, concise, practical. Also, keep your eyes open for ballistic data in the RIFLEMAN . . . tabulations of velocities, bullet weights, trajectories, of *every* American cartridge, regardless of manufacturer. We plan two or three of them . . . data that has never been made available before in a single, compact reference form.—J. S.



THE AMERICAN RIFLEMAN

COVER

The .22 rim-fire Western Super-Match cartridge which is the subject of this month's RIFLEMAN cover is the result of American mass production methods and, at the same time, a product of precision engineering. The story of its manufacture, in pictures, on page 12 of this issue, is the first of a series of pictorial articles which will show RIFLEMAN readers the processes by which rifles, pistols, and ammunition are made.

The Kodachrome of the Western .22 cartridge was taken by Earl Mercier, of Western Cartridge Company.

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The
AMERICAN RIFLEMAN

Official Journal of the National Rifle Association of America

1600 RHODE ISLAND AVENUE, N.W., WASHINGTON 6, D. C.

VOLUME 96 NUMBER 5

MAY 1948

Miracle in Hudson 8
AN EDITORIAL

'The Cookie' 9
BY RAY STANN

How Cartridges Are Made 12

Rifle *vs.* Shotgun on Deer 16
BY ARCHIBALD RUTLEDGE

Olympic Slow-Fire Pistol Shooting 19
BY BRIG. GEN. S. R. HINDS, RETD.

NRA Members' Convention 22

Grapefruit Circuit 23

Streamlined Woodsman 25
BY MAJ. GEN. JULIAN S. HATCHER

The Chronochart, Its Theory and Use 26
BY A. P. WEBSTER

Small Game Hunting Laws 29
BY JOHN S. ROSE

Olympic News 32

German Hunting Bullets 33

Choosing A Binocular—Part II 35
BY ROBERT J. AND ELSA REICHERT

1948 Regional Tournaments 38

Sincerely, Alvin Linden—Conclusion 39

Old Coach 42

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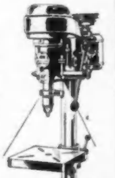

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MIRACLE IN HUDSON

VILLAGE OF HUDSON
HUDSON, OHIO

11 April 1948

National Rifle Association
Washington, D. C.

Gentlemen:

As Chief of Police in Hudson, Ohio, I have endeavored to take an active part in all civic programs which were for the benefit of the young folks.

Church bazaars, school dances, parties, and picnics are all very nice, but none of them really bring the kids down to earth. They must have something they can call their very own.

In spite of these programs, we, as do all American towns and cities, have our share of juvenile delinquents. Recently I tried a new approach: During the interrogation of five high school boys we believed to have broken a street light globe, I casually changed the subject to the possibility of starting a rifle and pistol club. I stressed one point especially, that one of the qualifications necessary to join the club would be a clean juvenile record.

The reaction has been a God-send for my department. We not only obtained quick confessions from the five young men, but during the past three weeks we have received numerous visits from other boys. They 'confessed' to indiscretions committed during the past several months so that they could clear their records for the express purpose of qualifying for membership to the rifle and pistol club.

I have seen miracles happen in the police business, but this is something out of this world. We have received enthusiastic telephone calls from fathers, school teachers, and business men. Frankly, I am now in a position where I would not dare to fail these youngsters and their dads.

We believe the age limit should be from 13 years old up. A survey taken recently discloses that 41 high school and 18 grade school boys, and an undetermined number of adults are interested. About 35 percent of the school boys have some equipment in the form of pistols and rifles. A few business men have pledged to support us on the purchase of reasonably-priced target training rifles.

This is where you gentlemen come into the picture. What cooperation are you in a position to give me in getting this club started? What instructive books and literature are available? I will appreciate any literature you may have which would show us how to go about organizing our club.

Very truly yours,

A. J. GALBOS
Chief of Police
Member NRA

Unheralded and unsolicited, the above letter dropped into our correspondence basket just before press time. We think it is one of the best 'editorials' we have ever published. To say more would be to 'gild the lily.'

CB Lister

'THE COOKIE'

By RAY STANN

The 120 - pound youth who's making champs and old-timers take notice shot for two years before he could score 45 x 50 at fifty feet prone

SCOUTMASTER Amos Heimer, of Troop 32, looked down the firing line at Camp Freestone on the Potomac and shook his head sorrowfully as he watched a half-pint eleven-year-old kid with big feet and a turned-up nose. The rest of the troop was doing pretty well with the Springfield M-22's, but Amos Heimer reckoned that Arthur Cook was going to need some special attention if he was going to make the grade before the summer camp season of 1939 was over.

Since this is a story about 'The Cookie,' we'd like to report that the squeaky-voiced youngster finished the course in a blaze of glory and then went on to further honors. But . . .

The big interclub match of Washington's straight-shooting Redskin Junior Rifle Club was all but over, and the statistical officer belabored the stub of a pencil as he put the final touches on the bulletin. When he finished there was an award in it for 'Cookie.' The prize was inscribed: Booby Prize—1941.

We hope that a lot of kid shooters will read this—especially those who are having trouble attaining normal scores and who are getting discouraged. Their problems probably won't appear so overpowering when compared to those of this lad because his story resembles that of a lot of very ordinary shooters. That isn't the case with Harry Reeves, Wayne Moore, and many others among the great shots of our day who never knew the day when they couldn't shoot at least moderately well. 'Cookie' shot for two years before he could score forty-five out of fifty at fifty feet prone!

Everyone who has followed the competitive rifle game the last few years knows what 'The Cookie' has done. He has climbed through the ranks of Master riflemen to a point where it would be virtually impossible to leave him off a national ranking of the ten best. He has earned a coveted spot on the U. S. Dewar International Team for two years running. He has set twenty-eight national records, won the National Junior Championship in 1946, and has been the best college rifle shooter in the country for the last two years.

Just turned twenty, 'Cookie' still looks like a fifteen-year-old apprentice jockey despite the fact that he claims to have boosted his weight from 105 to a more respectable 120 pounds. When he and equally young John L. Kelley, of Fort Worth, Texas, wandered out on the firing line buried under their equipment in the dawn of the morning to fire in the 1946 Dewar, news scribes quipped that they looked like caddies. Just about now he is closing out his sophomore year at the University of Maryland where he is majoring in mechanical engineering.

"I went to Maryland for two reasons," he explains. "First, because of the mechanical engineering course. You see, I'm planning a firearms technical career since that is the thing I am most interested in. Secondly, shooting is a major sport at Maryland and making the rifle team there really means something."

Talking with the sandy-haired sharpshooter with the big boyish grin, you get the idea that he will, indeed, make a fine firearms technician. He wants to know *why* things happen. Naturally inquisitive, he has probed into the whys and wherefores of ballistics and come up with 'a few ideas' already.

Two major-letter men at the University of Maryland: Arthur Cook (left), member of the winning National Intercollegiate rifle team 1946-1947, and Walter Gambino, member of 1947 All-American football team

Blessed with boundless energy, 'Cookie's' amazing success in the shooting sport has not been to the complete exclusion of other interests. His school grades are exceptional, he is a member of the Honor Society, and he serves as sports editor of the University yearbook, in addition to such other activities as ROTC. Through associations behind the firing lines, he has built up a profitable business in shooting accessories and book sales and he proudly says, "Every penny I've ever earned has gone back into shooting." If that weren't enough, he still takes a childish delight in building and flying model airplanes, and in local archery activities (he once won the District Junior Archery Championship).

Largely responsible for Arthur's decision to go to Maryland U. was Colonel Harland C. Griswold, boss of the school's riflers. The kindly Colonel is responsible for instituting one of the most progressive shooting programs of any school in the country—replete with scholarships for prospective high school marksmen, a scouting system which combs the East like a high-powered football school, a major sports letter, and (best of all) school pride in the team. That this helped lure 'The Cookie' to the rambling College Park University from Washington's McKinley Tech High School is undeniable.

Under Cook's leadership the Terrapin shooters scored 174 consecutive team victories during the last two years before the streak was nipped by a single point by the Army team at West Point early in 1948. The impetus carried the team to the 1947 National Intercollegiate title and to the runner-up spot (again losing by a single point) this year. More than just an outstanding position shooter (he carries a 290 college average; a 294 average in a local open league which allows hip rest from standing; and 295 in his scope work), 'The Cookie' has been invaluable for his help and influence with teammates.

'Cookie' (right) has been wise enough, and lucky enough, to benefit from the experience of such shooting old-timers as Tom Arnold

Like the little boy who became the ball team's pitcher because he owned the baseball, Arthur could have written his own ticket on the basis of his rifle alone.

"It's a charmed rifle if there ever was one," he laughs. "I bought this beat-up standard barrel Winchester 52 from a friend in 1945 for sixty bucks. He had purchased it in a pawn shop. It looked pretty bad and needed some attention, but since then we've put 300,000 rounds through it and it's still going strong. Last year the whole Maryland team used it during our winning streak. In fact, Walter Bowling of our team borrowed it to shoot in the National Individual in '47 and beat me out by one point for the title. And that's the thanks I got for waking him up in time to make his relay. I lent it to Joe Decker later on and he beat me out by a point for the Merkes Trophy and the school title."

That same one-point jinx in the collegiate individual harassed Cook again this year. He was creedmoored into second place, but he says determinedly, "I've got two more years to make the grade."

Far from a born shooter, neither did Cookie receive too much encouragement at first. His father, who served as Assistant Secretary of Labor under President Wilson, is dead and his mother, like most mothers, wasn't too sure about this shooting business. However, as the kid's skill increased she relented and bought him his first rifle (a bolt-action Mossberg) in 1944, but cautiously locked up the bolt at home. Now the reigning sensation among East Coast shooters classifies himself as a 'gadgeteer.' And Mrs. Cook, completely won over to the firearms activities of her son, is a frequent visitor to eastern matches.

Once he moved into serious open competition outdoors in 1945, Arthur's rise to fame was meteoric. Using his pawnshop 52, he set two new junior records in the first match of the year at Chester, Pennsylvania, and would have made off with the grand aggregate—except that he didn't enter it.

Later that year he scored his first 400 on the tricky Blair County range at Altoona, Pennsylvania, but got his greatest boost in October when, on the Grumman range at Long Island, he actually beat out Dave Carlson in two events, though not in the aggregate. His combined activities for the season hoisted him swiftly and brilliantly from the Sharpshooter Class into the Master Class.

But it was at Camp Perry in 1946 that 'The Cookie,' at eighteen, came into his own and gained his greatest thrill—a place on the Dewar team. But how close he came to setting the old-timers on their ears and taking it all in the Nationals is still a prime subject of conversation among Perry veterans. A fine wind shooter and capable of firing as rapidly as the best, Cook outfoxed many of the nation's best-regarded small bore artists over the tricky Ohio course. But there was no resentment toward this upstart; rather there were legends built up about the kid who worried thirty-six shots into his sighting bull during a twenty-shot match.

The stories are many. Like the time a well-meaning range officer in an early season match forcibly pushed Cookie's elbow over to correct an apparent position defect and nearly dislocated the kid's shoulder. But he won the match. Or the time at Chester when he was caught with eighteen shots to fire in a minute and a half. He got them all off and won the match with one point down. Or that time in 1946 at Perry when he shot the whole program with eyes watering profusely from a chronic case of hay fever and then threatened to fire the Dewar Match left-handed unless his right eye cleared up by morning. Or the time at Maryland U. when teammate Emanuel Briguglio bet Cookie an enormous amount of ice cream sundaes—one each day for twelve months—that Arthur could not shoot 100 standing. Lashed to a frenzy at the thought of so many ice cream sundaes, Cook went right ahead and fired the possible, although at last report he had not collected the full amount of the bet.

Modest and unassuming, Cook gives due credit to those

who have helped him along—men like Woodson Holst and old veteran Tom Arnold who saw possibilities in his frail frame.

Like Ted Williams of the Boston Red Sox, the greatest hitter in baseball, and like two-time National Small Bore Champion Wayne Moore, Arthur doesn't believe a person can get good enough not to be able to learn a little more. Thus, he hangs onto the advice of seasoned old campaigners like Arnold and Thurman Randle, and is grateful for it. They, in turn, are sold on the kid. Randle, in fact, once remarked at Perry that the kid had a remarkable combination of brains and stamina.

"For a little guy," he said, "this 'Cookie' is tops. Even a strong man would have trouble staying in position and shooting as many shots as he does at the record bulls and sighter."

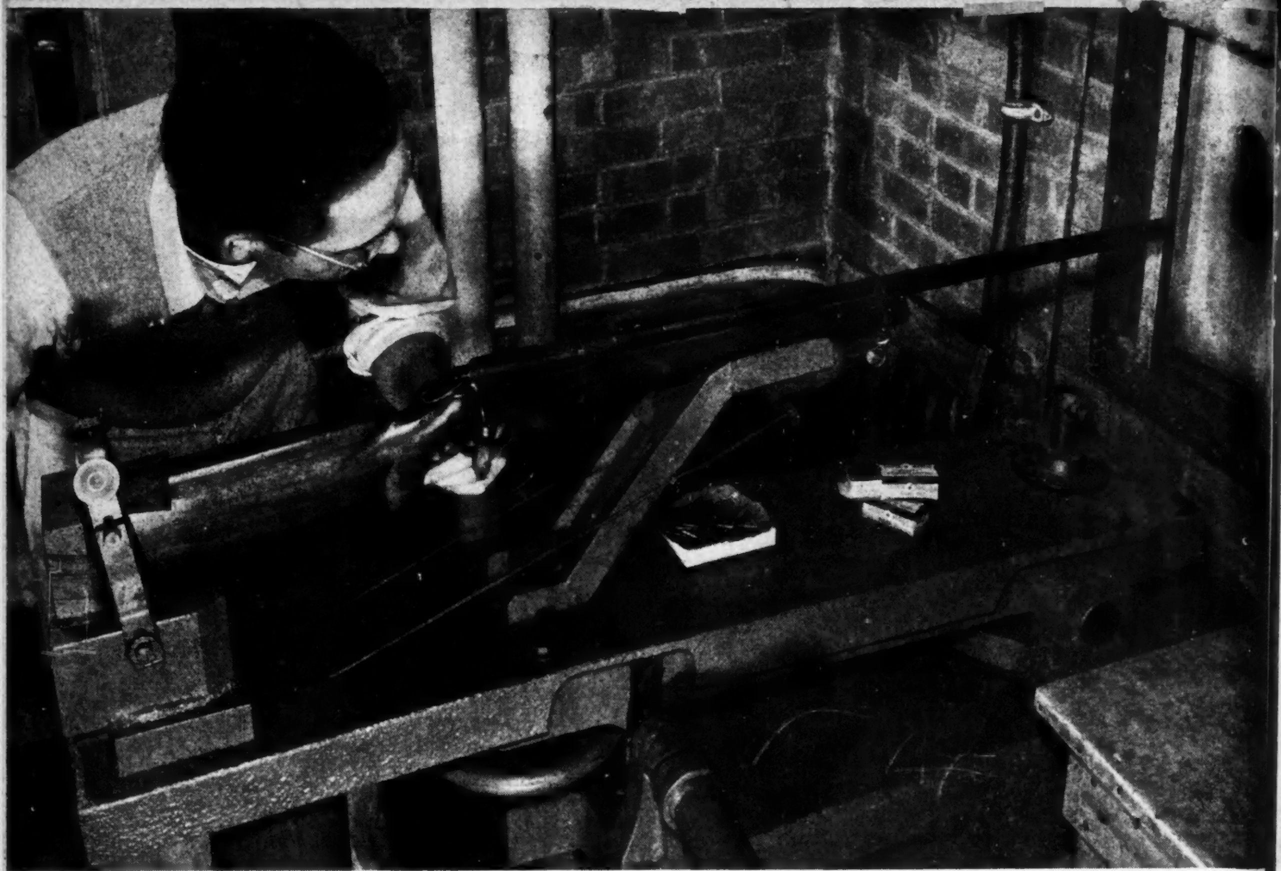
Arthur, of course, has the answer to that one—practice and condition. A nonsmoker and nondrinker, his only vice is ice cream sundaes.

That, then, is 'The Cookie,' whose primary contribution has been to prove that a youngster can break into the top ranks of a sport which heretofore had been pretty much monopolized by match-tested, wind-tested veterans. If he has a particular aptitude for the sport, it probably is his intensity of interest. Surely he has no outstanding physical qualifications.

The youngster has now turned into pretty much of an all-around shooter. There is little to choose between his ability in the ultra-precision outdoor small-bore work or in the indoor position classes. In fact, he has gone even further and developed into a pretty fair handgunner and big-bore rifleman—when he has the time for those activities. As for preference, it's divided. He likes the atmosphere of the outdoor range, but prefers position shooting. "I haven't any definite ideas on the problem, but I wish they could be combined," he says.

How does he do it? Let's leave that for 'Cookie' to say. In his spare time he is authoring a series of articles to tell you about it.

◆ ◆ ◆



Using a machine rest named Oscar which simulates arm and shoulder of a shooter, a ballistician tests Western Super-Match ammunition

HOW CARTRIDGES ARE MAD

Photographs for THE AMERICAN RIFLEMAN by Earl Mercier

Here, in the first of a notable picture series, is the story of Western Cartridge Company's .22 caliber Super-Match ammunition. Future issues of the RIFLEMAN *will take readers on 'personally-conducted' tours of America's other great arms and ammunition plants, for a look at the men and the machines that make today's sporting arms.*

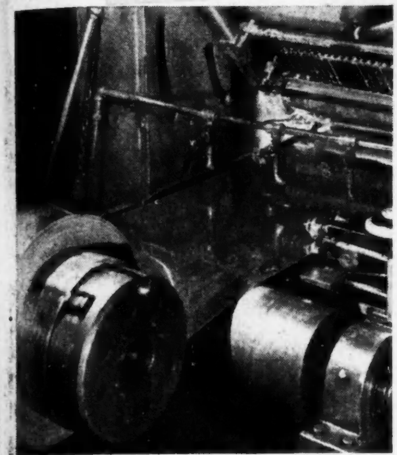
FEW SHOOTERS REALIZE what a complex package they are handling when they pick up a .22 long rifle cartridge. Far from being a simple assembly of brass, lead, and a few grains of powder, the little rim-fire cartridge represents one of the triumphs of the American arms industry. Without that accurately-made and accurate-shooting, inexpensive bit of metal, the whole modern shooting game might have died a-borning.

Western Cartridge Company's great factory at East Alton, Illinois, alongside the Mississippi, offers a fine sample of what goes on behind the scenes of U. S. small-arms manufacturing. In a plant that poured millions of rounds of ammunition into the hands of American and Allied soldiers during the war, Western technicians are today turning out the munitions of peaceful sport. Their target ammunition, typical of that demanded by the modern small-bore shooter, represents amazing proficiency in the mass manufacture of a precision product. As shown in the pictures on these and the following pages, making a .22 caliber cartridge is a complex, exacting task, in which meticulous attention to detail pays off in ammunition that will dependably punch its way through the tiny ten-rings of 50- and 100-yard targets.

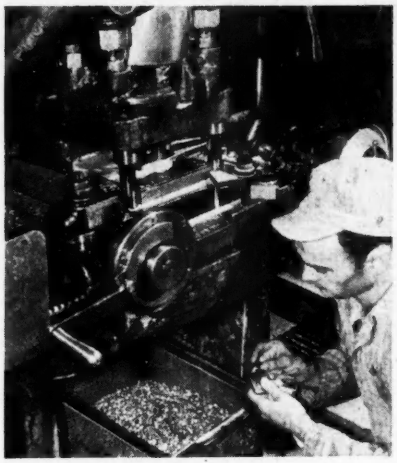
The development of Western's Super-Match dates back to 1936, when the ballistics experts at East Alton set out make accurate rim-fire ammunition with a smokeless lo Before that, smokeless .22's were all right for the kid or plinker, but did not have the accuracy demanded by Ca Perry riflemen. Only with smelly Lesmok, a fifty-fifty mi ture of black and smokeless powders, could the ammuniti companies satisfy the incessant demands for greater accura

By the following year, after exhaustive tests, Western h its Super-Match ready. More accurate, and no longer f smelling, smokeless .22's quickly established themselves thro the entire industry. Today, every ammunition company p duces smokeless rim-fires, and Lesmok loads are no lo made.

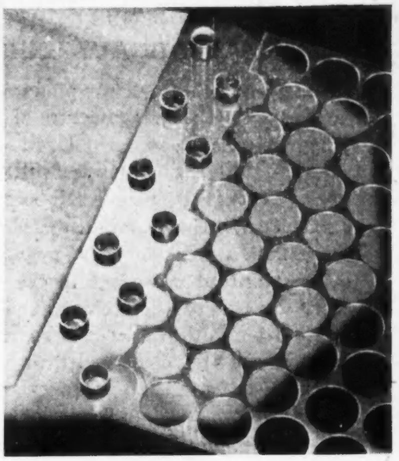
Most interesting factor in making accurate, smokeless cartridges possible is the strange machine shown at the of this page. Called Oscar by Western technicians, it a rately simulates arm and shoulder tensions of a small-b shooter, and thus allows uniform, day-in and day-out te under conditions almost identical with those of actual fir By plotting accuracy and drop curves based on many thousa of shots fired by Oscar, ballisticians were able to arrive the final combination for their revolutionary new ammuniti



Western's East Alton plant includes huge brass mill, where alloy of 70 percent copper, 30 percent zinc is rolled into sheets. Different weights of metal are required for manufacture of various cartridges



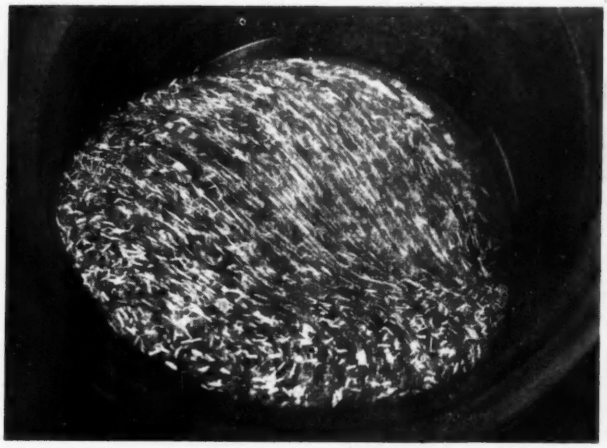
This automatic stamping machine punches 'cups' from which cartridge cases are drawn. As at all steps in ammunition manufacture, operator keeps close watch to guard against variation in product



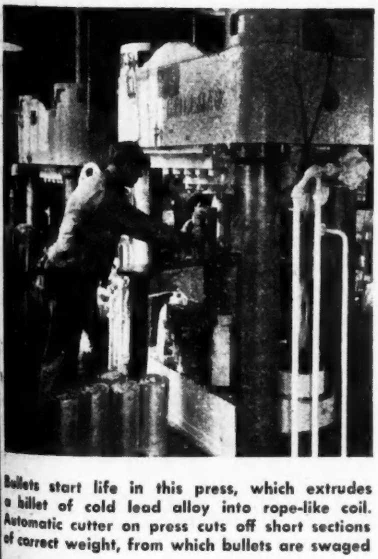
Cups (center) from which .22 cartridge cases will be made are punched from roll of brass shown at left. Remaining metal, called 'web,' is returned to brass mill for reprocessing

CAUTION
STOP FLYWHEEL BEFORE ADJUSTING
CAUTION
STOP FLYWHEEL BEFORE ADJUSTING

This draw press, which lengthens cup and thins sidewalls, performs first step in transforming punched brass to finished cartridge case. One other 'draw' is necessary before the case is trimmed to proper length and headed

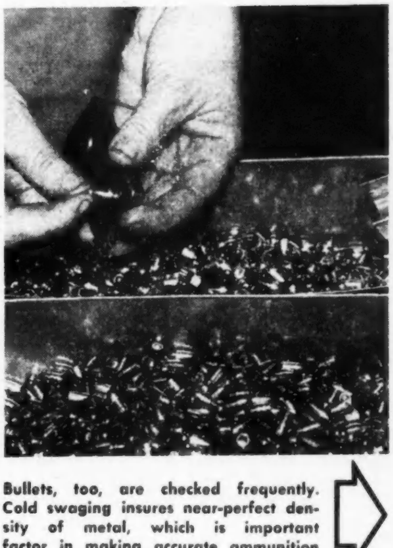


After shaping to finished form, cases are annealed to secure proper grain size and structure of metal, and then tumbled in battery of revolving barrels to give final polish. They are then ready for priming operations



Bullets start life in this press, which extrudes a billet of cold lead alloy into rope-like coil. Automatic cutter on press cuts off short sections of correct weight, from which bullets are swaged

These slugs of lead alloy are fed into a fast, automatic swaging machine which turns out perfectly formed 40-grain bullets. For Super-Match, presses are run slowly for maximum uniformity



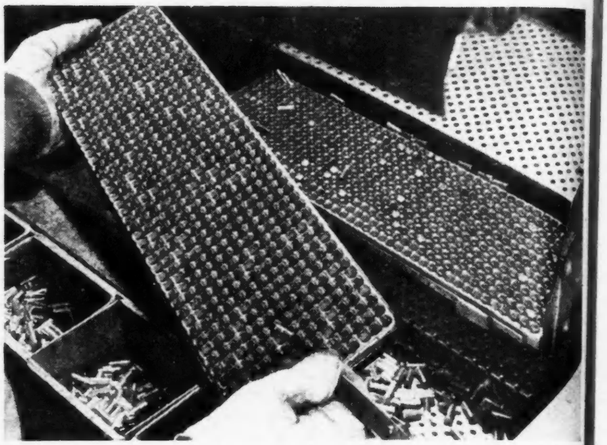
Bullets, too, are checked frequently. Cold swaging insures near-perfect density of metal, which is important factor in making accurate ammunition

UNIFORMITY IS THE WATCHWORD IN MAKING ACCURATE AMMUNITION

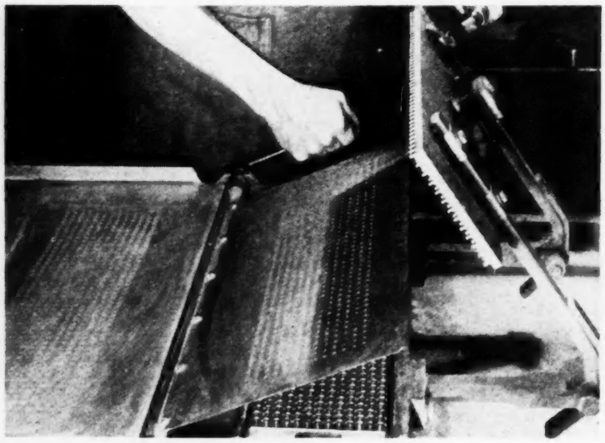
In perhaps no other quantity-produced product is as great care necessary as in the manufacture of the little .22 rim-fire. Most impressive is the fact that U. S. manufacturers can put that care into their ammunition and still produce it fast enough and cheaply enough to bring small-bore rifle shooting within the reach of any marksmanship-minded citizen.

The machine at the top of the opposite page performs one of the most critical operations in the whole manufacturing sequence. As each cartridge enters, knurled rings press lubricating grooves into the bullet, and knives crimp the mouth of the case onto the base of the bullet, then press a tiny flange of lead over the brass. The uniformity of the crimp can make or break ammunition. If accuracy falls off, as shown by the day-to-day tests with Oscar, the crimper is the first place to look for the trouble. If a change of crimp fails to correct a loss of accuracy, any of dozens of characteristics may have to be altered minutely—such as bullet diameter, powder charge, or a different lot of cases, priming, bullets, or powder.

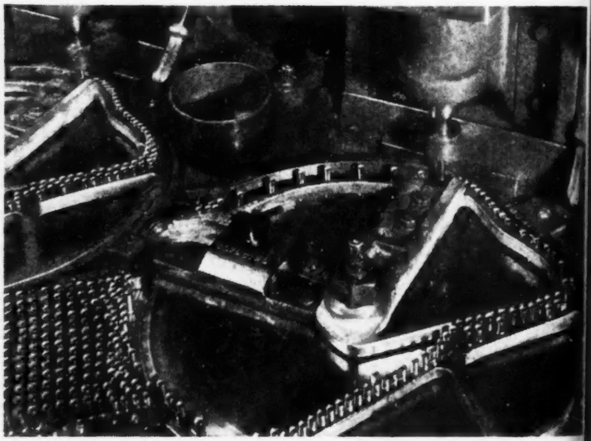
Most exasperating to the technician in charge of the loading line is that after he has done all of these things and accuracy is up to par again, he still may not know what went wrong or how he corrected the trouble. Making ammunition is like that.



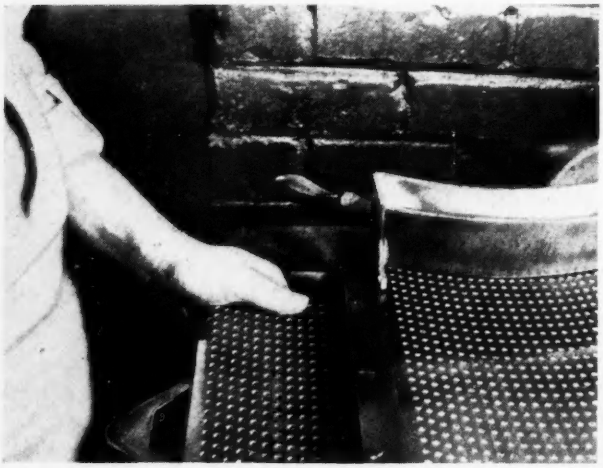
To assemble cases for priming and loading, 'shaker plate' is used. This i so made that majority of cases land right side up as they fall on surfac



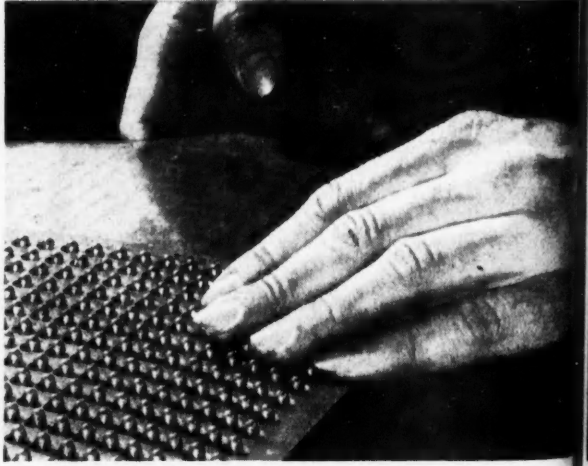
Priming is delicate, complicated operation. Short plungers visible on upper plate force pellets of priming mix into the bottoms of cartridge cases below



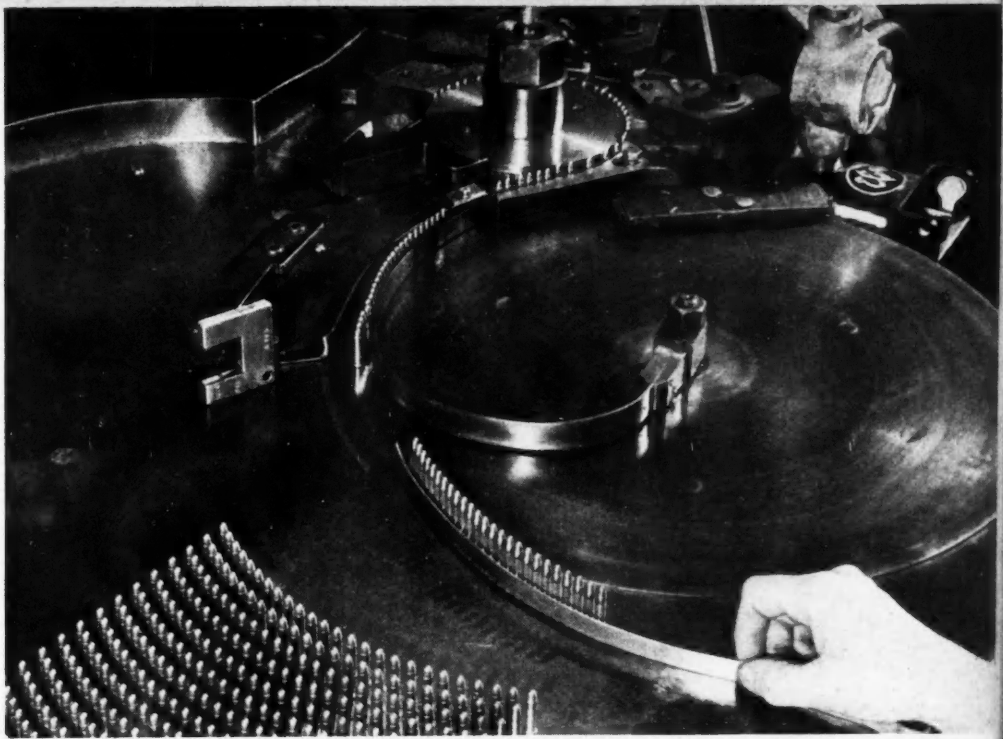
As each cartridge case passes, it is gripped by small 'fingers' and flut punch descends to spin pellet of wet priming mixture into the rim cav



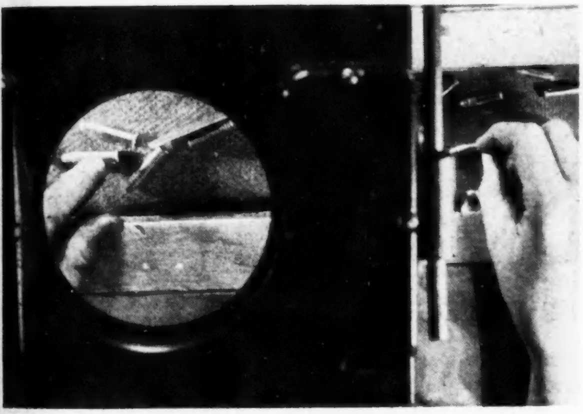
Charges of smokeless powder used in Super-Match are measured by another perforated plate. Sliding hopper cuts off clean, uniform charge in each hole



Cartridges are assembled by placing a plate of bullets over a similar pl filled with primed and charged cases. Complex press then seats bullets in ca

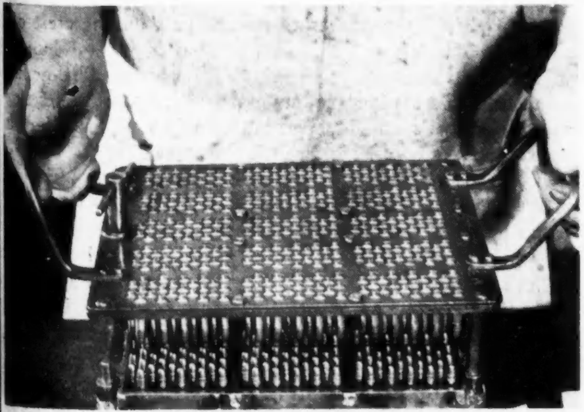


Crimping machine secures bullet in cartridge case. Because it is so vital to accuracy, this is one of most critical operations

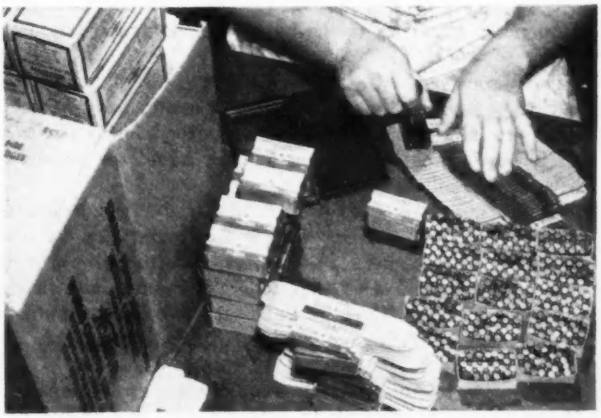


After assembly, Super-Match ammunition is visually inspected as it passes under magnifier on endless belt. Dented or battered rounds are withdrawn

Bullets are greased 375 at a time by girls who dip holders in shallow pan of molten lubricant. Ammunition is then ready for packaging and shipment



After lubricating, holders are joined in pairs, and upper cartridges are released point down. Bottoms of boxes are then slipped over each group of fifty



Final packaging is done by girls who stamp packer's number on inside of box cover, assemble box, and fill 500-round cartons ◆ ◆ ◆

JIM BERRYMAN

RIFLE vs. SHOTGUN *on Deer*

By ARCHIBALD RUTLEDGE

IN MY LONG and misspent life as a hunter, I have killed four bucks with a rifle, and two hundred and seventeen with a shotgun. For more than forty years I have been writing stories for 'the boys' about deer-hunting. They seemed to like them in every respect but two: I use hounds, and I use a shotgun. They seem dedicated to the propositions that the use of hounds is terrible and the use of the shotgun is unsportsmanlike.

I may someday write a piece about the use of hounds. I pass it by now, merely saying that if a hunter has once used hounds to hunt deer, no other kind of deer hunting can ever satisfy him. Probably all deer hunters would use hounds if they were permitted to do so.

In this discussion I shall limit myself to the question of using the shotgun on deer. This is the firearm used for deer hunting in Massachusetts, New Jersey, and generally throughout the South, except in the mountainous parts and in the wide-open plains of Texas. While there are some exceptions, as a general rule the shotgun is used wherever hounds are employed.

If I were to hunt deer in Pennsylvania or Michigan or Maine, or in any other of the rifle-using states, I should naturally employ that weapon. Then, too, I should be convinced that the natives had the thing all figured out, and I shoul be only too glad to adopt their methods. I have hunted dee with the rifle in the snowy Pennsylvania mountains. I reali that there, and in other states where similar conditions exis the rifle is the only firearm to use. The woods are bare, the is often a background of snow, and the rolling nature of th country permits the hunter to post himself on the crest of ridge, a position that commands a view of several hundre yards into the deep valleys on either side of him and below him The fact that he is in a mountain-and-valley country reassur the hunter that his high-power bullets will not travel far an perhaps make a fellow hunter look like a sieve.

Now, do the hunting conditions in eastern New Jersey an in the deep South at all resemble these? Judge for yoursel The country is dead level, so there is no telling how far you rifle bullets will travel. I once had a negro bring me bullet from my .250-3000 rifle that had spent itself against h cabin, a full mile from where I had shot the rifle. I may s also that, in my country at least, a rifle bullet that travels a distance is almost sure to hit a negro.

Then, too, the cover is so dense that its semi-tropical natu prevents all stalking. And it is vain to go into the woods e pecting, by watching and by waiting, to get a chance at

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buck. You may, indeed, hear one, but you will rarely see one. The chances of your taking aim with a rifle are all against you.

Every hunter of experience knows that sometimes when he has a rifle, he gets a shotgun chance. He also knows that the reverse is true. Only recently one of my sons, carrying a shotgun, had a great 12-point buck present him with a standing broadside shot at one hundred thirty yards. As the woods were open, it was a perfect chance for a rifle. But no shotgun will kill a deer at that distance. Whether the majority of chances will be of the rifle or shotgun variety depends on the nature of the terrain being hunted. There is a type of country for one, and there is a type of country for the other. Yet, while the users of the shotgun on deer never criticize the users of the rifle, the 'rifle boys' are forever heaping scorn and abuse on the users of the shotgun. A part of this opprobrium is due, I believe, to a misconception concerning the relative effectiveness or deadliness of the two types of firearms.

For many years I held the view that the high-power rifle was infallibly deadly on deer. But a great many deer escape with rifle-wounds. Some recover. Most of them probably die. Many deer escape with buckshot wounds, and I believe the majority of these recover. I know a case of one old buck that, when finally laid low, had seventy-nine buckshot lodged in various non-vital places in his anatomy. The rifle, therefore, does not have it over the shotgun provided that the range is not beyond the reach of the shotgun.

And what is the range of a good deer gun? There are records of deer having been killed at one hundred and ten yards. But such shots are miraculous. After forty yards uncertainty begins. Yet a great many deer are killed up to seventy-five yards. Much depends on where the buckshot strike. A single buckshot will easily kill a deer if it takes him in the head, the heart, the lungs, the backbone, or the flank just forward of the haunch.

The very best buckshot loads are No. 1's in the right barrel (this shell chambers sixteen buckshot), and No. 0's in the left, chambering twelve. Of course, if your buck comes close enough, you can kill him with birdshot. Once while I was hunting woodcock, an old buck, roused by the racket I was making, but miscalculating my position, came within ten feet of me. I killed him with a load of No. 9s.

In shooting deer with buckshot it must always be remembered that, the farther away the target, the more the buckshot will scatter, often at surprising angles. The pattern will, of course, largely depend on the bore of the gun and on the length of the barrel. These facts lead one to the consideration of this question: If a man is going to use a shotgun on deer, what is the very best type to use?

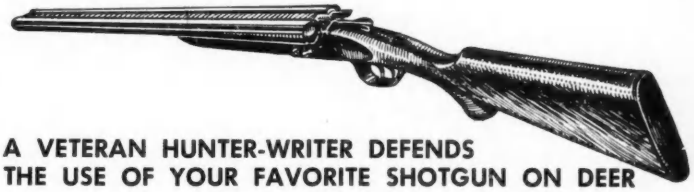
I probably am a heretic in believing as I do, but I am not partial to a semi-automatic shotgun—for any kind of game. I have come to such a conclusion from long experience. My feeling is that in shooting, if a man is afforded too many chances, he will be careless. He feels free and easy. He is likely to begin to shoot before the game is within range, and will keep on shooting as long as it is within sight. If, in deer hunting, I hear a man shoot *once,* I feel complacent. I am satisfied that he has killed his deer. If he shoots twice, I am reasonable sure that there's a fifty-fifty chance that he has scored. But when I hear five shots in rapid succession, I feel chilly and old. I curse as I mutter, 'No soup.' My visions of venison degenerate into hamburger.

To illustrate more clearly what I mean, late one afternoon I was hunting deer with my three sons. A fine buck elected to pass me at not more than thirty yards broadside—a perfect chance. But when my right barrel snapped, I was badly disconcerted. So was the buck, for then it was that he made me out. And you know what a buck can do when he makes you out at close range. However, I managed to kill him with my second barrel. The next morning, when we went for another hunt (and perhaps I should explain that in South Carolina the season's limit is five bucks for each hunter), I told my boys that, since my right plunger was broken and I had only one barrel, I would not take a regular stand but, after posting them on the choice crossings, just stand aside somewhere and listen to the fun.

Now, if you are an old deer hunter, you probably know what happened to me. I had never heard of anyone standing where I stood that day, nor had I ever stood there before. I settled myself for a long wait. But within ten minutes after the drive had started, I heard something coming for me. Ignoring all the obvious and standard runs, this wary old veteran, a 10-point buck, came slipping by me at a pretty fast clip. Because I knew I would have only one chance at him, I suppose I never took more careful aim at a deer. At the shot, he dropped as if he had been poleaxed.

But I never did finish describing an ideal deer gun. It should be a 12-gauge and have 30- or 32-inch barrels. The right should be modified choke and the left full choke. Ordinary steel barrels handle buckshot better than Damascus steel. Damascus barrels do not seem to be able to stand high-power shells loaded with buckshot.

Often, in reading a detective story, I am amused by something like this, "The victim of the shotgun blast was doing well at the hospital. He had been peppered with buckshot."



A VETERAN HUNTER-WRITER DEFENDS THE USE OF YOUR FAVORITE SHOTGUN ON DEER

The average sleuth and the average writer of detective stories do not know the meaning of buckshot. They do not pepper you. They tear the living daylight out of you. Any man who fairly gets a charge of buckshot has no more chance of survival than if he got a half-dozen high-power bullets through him.

In some states—Pennsylvania, for example—while buckshot are forbidden in the hunting of deer, the hunter may shoot a slug or a single ounce ball with a shotgun. I have tried this load at a target. At a hundred yards it dropped about ten inches. I doubt if the trajectory is reasonably flat for more than thirty yards. Of course, it delivers a terrific wallop within shotgun range, but this load is not in a class with a soft-nose bullet out of a rifle.

At the beginning I said I had killed bucks with both the rifle and the shotgun. I got less thrill out of using the rifle. Is it not a fact that nearly all deer killed with that firearm are shot lying down, standing, or walking? Oh, I have often had one of 'the boys' tell me he had killed a buck in the woods, running full speed at two hundred yards. In reality, the old man was probably walking at fifty yards. If woods are normally timbered, it is difficult to see a deer at two hundred yards. To kill him standing at such a distance would be a miracle. To kill him running would be a feat belonging in an even higher bracket. Remember, however, that we are speaking of the forest, not of open meadows and plains. In the woods, despite all claims to the contrary, I am convinced that the vast majority of bucks are killed with the rifle at a range of seventy-five yards and under. I have hunted deer in the forests of the North, and I know that few real chances are afforded at a greater distance than the limit of shotgun range. What 'the boys' ought to do is to measure off two hundred yards in the woods in order that they may come to a conservative, if not an entirely accurate, estimate of distances. It has always seemed to me that hunters in general do not have a good idea of distances. And when shooting guns, they often expect more of them than is reasonable.

That the rifle in deer hunting is far more dangerous than the shotgun should generally be admitted. Nor is proof lacking. In the great deer states in the North it is no uncommon thing for from twenty to thirty hunters to lose their lives in each state during a short season of ten or fifteen days. In my state, where the shotgun is used, although the deer season is one hundred thirty-eight days, such accidents are exceedingly rare. Here, in the past fifty years, I do not believe there have been thirty fatal accidents.

As to the sportsmanship of using the rifle on deer, and the lack of it in using the shotgun, I am afraid this distinction has been overdone. By many sportsmen the former is considered noble, and the latter ignoble, if not ignominious. It is not always true, but as a rule the gun and buckshot are used where deer are driven with hounds. Many of these dogs are very fast. As a result, a buck is likely to come to the hunter on a dead run, perhaps through high broom sedge or thick evergreen brush such as young pines, myrtles, sweet bays, and gall berries. If the test of marksmanship is what really makes the sportsman, here is a far more difficult target than that usually offered the hunter with the rifle. His swiftness, his undulant grace, and the fact that in the regions where the shotgun is used he is rarely seen in wide open woods with a clear background—all these things convince me that the buck killed with buckshot is not meanly killed. It takes all that a good hunter has to do it. ◆ ◆ ◆

Report from the DCM

THE FOLLOWING questions and answers represent only a few inquiries received in the daily mail from NRA members seeking information about the sale of Ordnance material. But the questions most frequently asked are repeatedly the same; therefore, the answers should furnish timely and specific information to all concerned.

Q. I understand that the DCM is now processing the many thousands of orders received during October, November, and December of 1947. My order was mailed November 15, 1947. When will I hear from it?

A. As of April 10, the DCM Sales Section was working on orders received November 12. It is estimated that by April 30, they will be processing orders (your own included) received on or about November 17.

Q. In August, 1947, after receiving my NRA membership card, I sent an order to the DCM for an Enfield rifle, but have never heard from it. I understand you are now processing orders received last November. Was my order overlooked?

A. No. But you ordered before sales were resumed, hence the DCM could not act on your request. It is our policy to return such orders with an explanation as to why approval cannot be granted. It would appear that your purchase request was never received, but in any event the order could not have been processed for the reason mentioned. All orders received during the year, October 1, 1946, through October 1, 1947 (during the suspension period), were necessarily returned.

Q. I ordered a Springfield from the DCM back in June, 1946, but never heard from the order. In October, 1946, I changed my address. Is this the reason? How can I get my rifle now?

A. Yes, your order was processed and the approval was mailed to the address you gave. The unused approval was automatically cancelled sixty days after its date. When Springfields are offered for sale again, you may reorder.

Q. When DCM sales were resumed last October, I ordered an Enfield plus barrel. I've just received the rifle. When do I get the barrel?

A. Your order for the barrel was placed with a different arsenal and will be handled as an entirely separate transaction. This procedure was necessary because the Enfield rifle and barrels, unfortunately, are stored at separate Ordnance Depots.

Q. Recently I joined the NRA and learned that the sale of military rifles was suspended last December. Can I place my order for a Springfield now and have it processed when the present backlog of orders have been filled?

A. No. The DCM can accept no more rifle orders until all of the 1947 orders have been processed. When this has been accomplished, a notice will be published in the RIFLEMAN stating what rifles are available. You should place your order promptly when the notice appears—but not before then. ◆ ◆ ◆

Olympic
Slow-fire Pistol Shooting

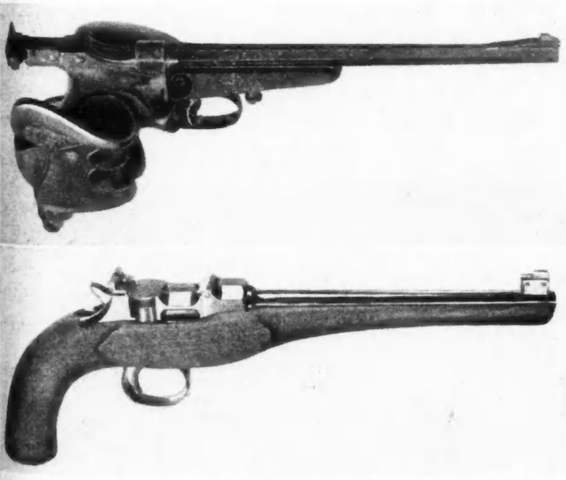
By BRIG. GEN. S. R. HINDS, *USA Retd.*

EVERY FOUR YEARS, or as regularly as the schedule of wars permits, the Olympic Games are put on to renew the ideals of sportsmanship handed down to us from the ancient Greeks. It is often claimed that these events engender good will between nations and promote international acquaintance and mutual understanding, which are very desirable things indeed.

In Olympic years there is a mad scramble, increasing in intensity as 'O-Day' approaches, to form the 'name committees,' plan for the financing of the teams, and accomplish other high level tasks. The would-be contestants begin worrying about 'am I good enough,' equipment, time for practice, training, and the other practical player or shooter problems.

During the past few weeks I have had so many inquiries about the Olympic pistol courses of fire, equipment, and how to practice for these courses that I am taking it upon myself to write a few notes for the RIFLEMAN,* although there are many shooter-writers (or writer-shooters) who could do a much better job of either. Due to the limited time and accurate records available as well as limited space, these notes will deal only with Olympic slow-fire target pistol shooting.

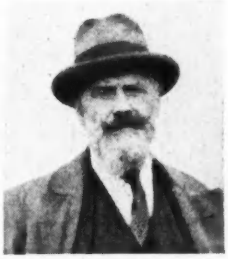
Target shooting has always been one of the most popular Olympic events from the standpoint of the number of participating nations. In the 1924 Games twenty-seven countries entered the shooting matches while the most recent Olympics in 1936 counted twenty-one shooting nations. It is interesting to note that in the 1924 Olympiads the number of countries taking part in shooting was exceeded only by the number participating in the running events, twenty-nine and twenty-seven respectively. Draw your own conclusions! At least these are two very elemental means of survival in any league.



Anschutz 'Record' (above) is typical arm used in free-pistol shooting though standard handguns such as new Tompkins single shot (below) are satisfactory. Style of gun is not nearly so important as experience with it

One of the most interesting characters in International and Olympic pistol shooting for several decades was Dr. Paul Van Asbroeck of Belgium. He was a record holder in 1912, a star performer at Antwerp in 1920, Rheims 1924, The Hague 1928, and even at late as 1930 placed fifth best in the world at the reputed age of seventy-five years.

Our own Olympic and International pistol shooting records during the nineteen twenties and thirties abounded with the names and personalities of Dr. I. R. Calkins, Lane, Harant, Karl T. Frederick, Ray C. Bracken, Bill Whaling, Elliott Jones, William F. Riedell, and others.



Dr. Paul Van Asbroeck

The present Olympic record holder, a veritable 'man of iron,' is Torsten Ullman, of Sweden, who proved his mettle at the 1936 Games in Berlin by winning the gruelling sixty-shot slow-fire match and placing third in the silhouette rapid-fire event. Krempel, of Germany, and Jamonnieres, of France, respectively won the silver and bronze slow-fire medals. The scores of the medal winners and the entries of the United States, Jones and Riedell, are shown below:

Ullman, Sweden	95	92	94	91	92	95	559
Krempel, Germany	87	88	91	92	95	91	544
Jamonnieres, France	91	92	86	91	90	90	540
Jones, U.S.A.	92	90	83	92	90	89	536
Riedell, U.S.A.	82	87	85	89	84	92	519

In the International Matches at Stockholm, Sweden, last August, Ullman won several pistol events to prove that he is still a top flight shooter.

The Olympic slow-fire match is a separate event and has no connection whatever with any other of the shooting events. The entries and awards are handled for this event just as for the 100-meter dash. The three men entered by a nation compete as individuals. There is no aggregate or team score involved except as a contribution toward the mythical Champion Nation of the XIV Olympiad.

The course of fire is simple but tough: Six strings of ten shots each, fired at fifty meters within a time limit of two hours. That's all! A maximum of eighteen sighting shots are allowed. They may be taken before the beginning of any string, the number to be at the discretion of the competitor.

Firing is done from a shelter and usually on a 'safety range' from which it is impossible for even an accidental shot to escape, due to vertical safety baffles erected at various distances down the range. Incidentally, the usual rule is that there is no penalty for accidentals if the barrel is touching the forward side of the firing point bench pointing downward. This is to take care of the very fine set triggers that are sometimes set too fine. All other shots count; there are no alibis.

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*RIFLEMAN articles by Bill Riedell (May, 1942) and Walter Roper (February, 1939) go into the discussion of free pistols very thoroughly and accurately.

The target is the International fifty-meter pistol target. It is fifty centimeters in diameter with ten equally spaced scoring rings from one to ten, the ten-ring being five centimeters, or just a shade under two inches in diameter. The black aiming bullseye contains the seven to ten inclusive and is approximately the size of the black of the Standard American fifty-yard target which contains the eight, nine and ten rings. The picture of Ullman's record target shows the combination International-Standard American target and enables one to make a comparison between them.

Slow-fire medal winners in 1936 Olympics at Berlin: Charles Jammonnieres, third; Thorsten Ullman, first with record score; and Erich Krempel, second

There are no alibis for being out-gunned in free pistol shooting. The man who claims he can do better with a barrel two feet long or a 'hair-trigger,' or no trigger at all, or some pet caliber is at perfect liberty to use his ingenuity to the limit. The sights must be metallic and 'open' and there must be no projections for support rear of the wrist. The gun must be safe and, of course, must not endanger or annoy the other shooters or spectators, nor damage the range equipment in any way.

There probably have been few, if any improvements, in either the European or American slow-fire pistols since the beginning of the war. The newcomer on the American market, the Tompkins, looks like it would be satisfactory for the free pistol game. Incidentally, the United States Revolver Association record for the sixty-shot International-Olympic slow-fire (free pistol) course is 563, held by a Harrison & Richardson 'USRA' Model with a two-pound trigger pull, in the steady hand of Ed Hatmaker of Gulfport, Florida. The older Colt 'Camp Perry' and Smith and Wesson 'Olympic' models are still among the leaders in our slow-fire matches.

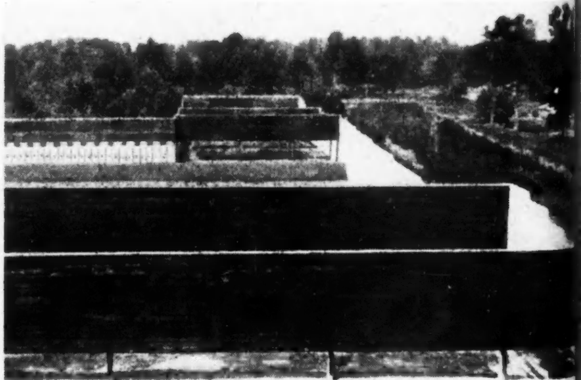
The cartridge used in all free pistols is, as far as I know, the .22 long rifle. It will be some time before a better cartridge for this game is developed and produced.

Barrel length is a question open to some debate. Balance is the determining factor in barrel length as there is little difference in accuracy between a sixteen-inch barrel and one of six inches. I tried for a good many years to develop strength enough to hold my pet sixteen-inch barrel steady. Never quite attaining the desired degree of strength, and also approaching the age at which Herculean muscles are not apt to grow, I cut off four precious inches of Pope barrel for a much better balance and 'feel.'

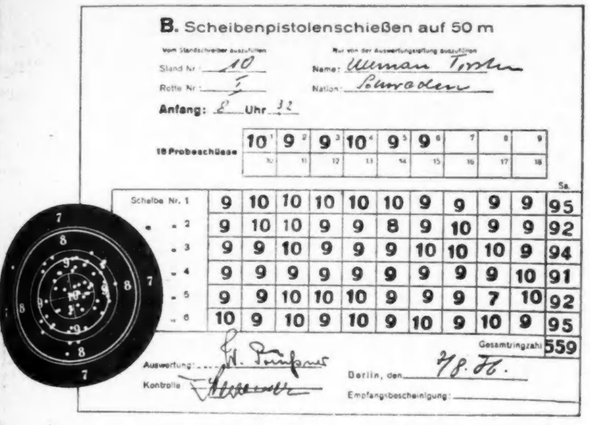
Walter Roper's theories and comments on stocks for free pistols would be very hard to improve upon. The point is that you should be able to hold the pistol pointing at the target without any conscious muscular effort. A lot of practice helps reduce the conscious effort but a proper stock which feels right for *you* is essential.

Most of the American shooters prefer the Patridge type sight with a ⅛-inch undercut blade front sight. A very popular European sight in the last decade was about 1/16-inch black or red bead front sight with a rear sight almost an aperture, but open about 1/32 inch at the top. A six o'clock hold is generally used with either type sight. A click adjustment for both elevation and windage of not greater than ½ inch at fifty meters is necessary to keep the group centered in the ten-ring. A rear extension mount for the back sight increases the sight radius and possibly adds a point now and then. However, those prongs look fragile. I have always been reluctant to use one for fear it might accidentally be bent or broken off, thus rendering the gun a casualty at the most inconvenient time.

Set triggers or plain? That has been the $64 question for a long time. Personally, I think a grand prize of about two potatoes is more in keeping with this big question. It is just as hard to get a fine set trigger off as it is a 5½-pound Springfield pull (Pan American, 1924) when the pressure is on, your knees quaking, and your trigger finger frozen. The thing that is helpful in using a set trigger is that it feels just the same immediately after it shoots as it did the instant before. Not knowing the exact split second it is going to go off, you aren't apt to jerk—if you do it right with a smooth follow-through. A few makers of patent triggers (plain) now use this idea as the 'Eureka' in their advertisements. Actually, a good clean straight trigger so adjusted, or 'jazzed up' with one of these patented devices, preventing you from knowing the exact instant it is going off, is for all practical purposes good for the 'squeeze' shooter. Any trigger that lets go at the instant of release with a sudden change from a two- or three-pound pull to practically nothing is apt to cause a muscular



Baffles of safety range in Rheims, France, scene of 1924 Olympics, prev accidental shots, common with hair-trigger free pistols, from going astr This type of shooting range is common in crowded countries of Euro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B. Scheibenpistolenschießen auf 50 m

Vom Standschreiber auszufüllen — Nur von der Auswertungsstelle auszufüllen

Stand Nr.: 10 — Name: Ullman Torsten

Rotte Nr.: 5 — Nation: Schweden

Anfang: 8 Uhr 32

18 Probeschüsse								
10¹	9²	9³	10⁴	9⁵	9⁶	7	8	9
10	11	12	13	14	15	16	17	18

											Sa.
Scheibe Nr. 1	9	10	10	10	10	10	9	9	9	9	95
" " 2	9	10	10	9	9	8	9	10	9	9	92
" 3	9	9	10	9	9	9	10	10	10	9	94
" 4	9	9	9	9	9	9	9	9	9	10	91
" 5	9	9	10	10	10	9	9	9	7	10	92
" 6	10	9	10	9	10	9	10	9	10	9	95
										Gesamtringzahl	559

Auswertung: H. Prinzhorn

Kontrolle

Berlin, den 7/8. 36.

Empfangsbescheinigung:

Target and score card of Thorsten Ullman's record slow-fire score of 559

jerk in the forearm and hand muscles resulting in a derangement of the sight alignment just as the bullet starts on its flight. The solid ('stonewall') trigger stop has the same apparent result due to muscle contraction. A support for the trigger finger, as in the Anschutz 'Record' model, is helpful in control of that digit.

The stance and body and arm positions are not essentially different from the standard and well-known rules of good pistol shooting form. One point in which you cannot afford to be sloppy is that of proper body angle. The angle, governed entirely by the position of the feet, is correct only when the sights align themselves naturally on a vertical line through the center of the target. Before each string of slow fire aim normally, close the aiming eye for a second or so, then open it and see if you are still in proper alignment. During the time the eye is closed the arm seeks its 'natural' point of aim, with the back muscles exactly balancing the forward muscles. That is the point toward which the muscles will try to bring the gun and the sight alignment at the moment of firing. Shift the feet, usually very slightly, turning the whole body until this alignment tests proves the angle is correct. Try this even before you snap in or take a single sighting shot. Having found this correct position, keep it, with the feet glued in place, until the string is completed.

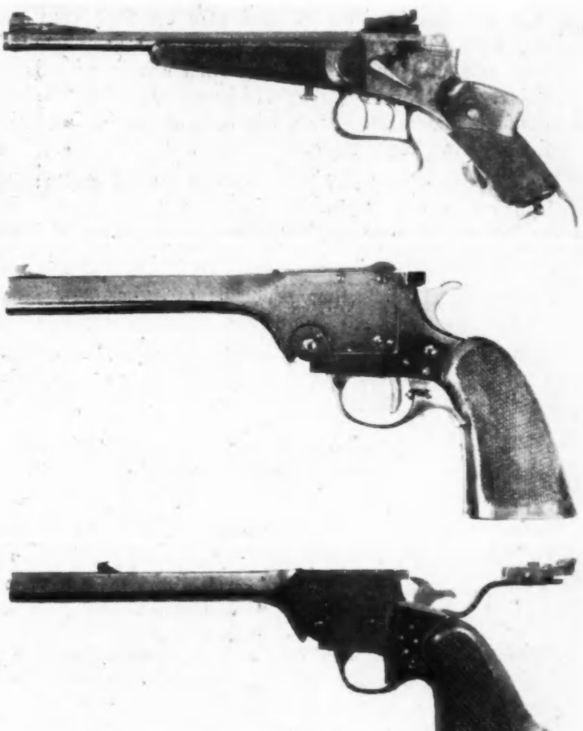
The grip, or position of the hand on the stock, should be very relaxed. The fingers should be in contact with the stock but the muscles not tightened any more than is necessary to hold the gun. Relaxed muscles are steady. If the stock is properly fitted to your hand, the relaxed grip is very easy to acquire. As important as this is for .22 free pistol shooting, don't get any false illusions about holding and shooting a .45 semiauto that way; it might throw you for a loss. At least, there would be a good chance of having to pick it up and blow the dust off.

The matter of trigger squeeze has been mentioned briefly above in the discussion of the mechanical side of triggers. The 'tap' method of handling a set trigger has pretty well given way to the method of continuous pressure. A few free riflemen, Lienhard, of Switzerland, and P. M. Martin (U. S. 1927-1930) were successful 'tappers,' but I do not know of a single set trigger pistolman employing that method. The continuous pressure method can be applied to any kind of a gun and to any weight of trigger pull.

It takes time to become accustomed to any trigger and the lighter the pull the longer this takes. Practice with the chosen type of trigger properly adjusted according to its mechanical characteristics. Therefore, if you have been shooting a plain two-pound trigger and wish to compete for the Olympic team in a few weeks, my honest advice would be to make no drastic change in triggers. Set triggers are fine after you have learned to use them and have built up some confidence in them in real competition. Six months to a year of almost daily practice, dry or actual shooting, should be enough for a good plain trigger shot to begin to step out in fast company with his set trigger job. This, or any other skill, doesn't come easily; it takes a lot of conscientious, intelligent, and patient practice.

My experience has been that the use of the set trigger does not affect one's ability to use the plain trigger, some expert testimony to the contrary notwithstanding. One of the luckiest match years I ever had was in 1924, when I was fortunate enough to either make an International Team or win an individual match with every type of free and military pistol and rifle, including small bore with triggers weighing from about one-half a frog feather to five and a half pounds. As Bill Riedell says, "The only thing that hurts your shooting is to not shoot."

It is a fine game, this long course slow-fire pistol match for the best shooting handgun you can dream up or otherwise procure. Through the grind of sixty hard-fought shots, the good breaks just about balance off the bad ones. With practically the same conditions for the last relay as for the first, the best pistol shot wins. It is a good enough sport to warrant more consideration and promotion the year around and every year instead of the slap-dash treatment it now receives during the hectic weeks before each Olympic. ◆ ◆ ◆



Author's pet is a Tell-Buchel-Pope free pistol (above), though Harrison & Richardson 'USRA' (center—note buffer spring to dampen trigger lash) was gun used to establish U. S. free pistol record. H&R 'USRA' (below) modified with Roper stocks and tang sight extension is also suitable

NRA MEMBERS' CONVENTION

October 25-28

The major step in bringing the 'inner workings' of the NRA closer to its members . . . making it possible for any NRA member to have a voice in the formulation of policy and the control of Association affairs . . . will become a reality early this fall. Starting Sunday, October 24, the first of the Association's planned conventions will be staged in Washington's huge Shoreham Hotel. Succeeding years will see the annual affair moved across the country to other cities, to allow shooters from central and western states to attend conveniently.

Here are the highlights of this first National Rifle Association get-together:

Sunday, October 24—Registration for members, main ballroom, mezzanine, Shoreham Hotel, Washington, D. C. Members can plan to arrive in Washington on Saturday and Sunday, October 23 and 24, and take up their own prearranged hotel reservations at that time. The Shoreham will be convention headquarters. Many other excellent hotels are available. Convention exhibits will be set up in the main ballroom of the Shoreham. These will be available for inspection on Sunday after registration.

Monday, October 25—9:30—Opening general session: aims and purposes of the NRA. How the NRA organization and program seeks to accomplish its aims and purposes. Outline of the convention program.

10:30—Panel discussion: problems of senior and junior club administration. All club officers and interested members.

1:30—Conducted tour of Washington, Arlington, Alexandria, Virginia, and George Washington's home at Mt. Vernon for wives and families of members.

1:30—Second general session: antifirearms legislation. Background and problems facing sportsmen during the winter of 1948-49 when most state legislatures will be in session.

3:15—Panel discussions: the small-bore and pistol programs from the competitors' standpoint.

4:30—Special display time for convention exhibits in the main ballroom, Shoreham Hotel.

Tuesday, October 26—9:30—Open forum: conservation; the role of NRA and NRA clubs in conservation; planned hunting. An open discussion panel led by NRA staff personnel and national conservation experts.

9:30—Panel discussion: small-bore tournaments from the management standpoint.

11:15—Panel discussions: pistol tournaments from the management standpoint and improvements in the junior qualification and match program.

1:30—Third general session: summarization of all previous panel discussions. Discussion of commonly agreed points and of conflicting problems. Recommendations.

3:00—Fashion show and tea for all the ladies.

3:30—Special exhibit display time, and panel discussion for official referees. Discussion of rules, problems, training.

Wednesday, October 27—9:30—General meeting, all members. Technical developments; reports on new devices; operation of NRA Technical service. Members will hear Major General Julian Hatcher and others of Technical Staff.

11:00—Special display time for convention exhibits in the main ballroom, Shoreham Hotel.

12:00—Luncheon, reception for all ladies.

2:00—NRA Annual Members' Meeting; election of directors. New ballroom, Shoreham Hotel; for all members.

8:00—Banquet, new ballroom, Shoreham Hotel, for all members, families, and guests.

Thursday, October 28—9:00—Field trip to Army Ordnance Proving Ground at Aberdeen, Maryland. All members. All-day trip of inspection with special ordnance exhibits arranged by Army Ordnance.

Throughout the convention, scheduled times will be arranged for conducted tours of groups of members through the NRA Headquarters Office Building.

Further details will be published in THE AMERICAN RIFLEMAN as they become available, and complete, detailed programs, information on Washington hotels, and other facts will be distributed before convention time.

This is your opportunity to take a larger hand in the affairs of *your* Association. Plan now to attend!

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Washington's huge Shoreham Hotel will be host to the first NRA members' convention, October 24-28

Citrus Fruit & Centerfires

THERE IS AN indefinable something about the big outdoor matches in Florida during the month of March that just can't be described. Hundreds of words have been written about the competition they provide, the feeling of good fellowship they instill, and the 'circus revelry' they offer to all—young and old. But no written word has ever been able to capture the true spirit of the St. Petersburg National Midwinter Rifle Championships, the Tampa National Midwinter Pistol Championships, and the Coral Gables Flamingo Open Pistol Tournament. A person just has to be down on the peninsula to appreciate the entertaining talents of the generous tournament hosts.

THE 'SUNSHINE' MATCHES THIS YEAR PROVED ONE THING—THAT HUELET BENNER IS STILL THE RANKING U. S. PISTOLEER

This year, for the first time since 1941, Florida offered its full show. C. A. 'Smitty' Brown successfully revived Tampa in '47, but St. Pete and Coral Gables could not get back to prewar 'normalcy' until this year.

Three thousand miles away, across the continent, in Calexico, California, a newcomer joined the galaxy of March shooting tournaments—the First Desert Cavalcade International Pistol Matches.

The St. Petersburg National Midwinter Rifle Championships, sponsored by the Florida State Rifle Association and the Sunshine Rifle and Pistol Club in co-operation with the St. Petersburg Chamber of Commerce, ran into unexpected bad luck. The weather turned so bad after the first day's shooting that the final day's program had to be cancelled. The St. Petersburg Chamber of Commerce still doesn't believe it happened and shrugs it off as a 'nightmare.'

Before the war W. B. Schweitzer, of Hillside, New Jersey, had the habit of making the St. Petersburg Rifle Midwinters his tournament. He would win just about everything in sight. This year he was shut out. Roy Kuhn, of Stratford, Connecticut, took the Grand Aggregate; the National Rifle Champion, G. Wayne Moore, Washington, Pennsylvania, took the Southeastern Small Bore Championship; and G. T. Humphreville, of Spartanburg, South Carolina, the National Midwinter Small Bore Championship.

In the Grand Aggregate the first three scores were: Kuhn, 2779-141x; Schweitzer, 2778-169x; and Vaughn Cail, New Haven, Connecticut, 2773-160x. All out of a possible 2800.

Moore took the Southeastern with 984-54x out of a possible 1000, followed by Humphreville, 984-50x, and John Perzo, Gary, Indiana, 984-50x. In the Midwinter, Humphreville and Moore changed places. This time Moore followed the former's 1574-76x with a 1573-78x, while Sam Bond, of New Philadelphia, Ohio, rounded out the first three with 1571-78x. All scores were out of a possible 1600.

In a special Swiss Match, G. Wayne Moore finished on top with thirty-five bullseyes. Bertie Moore was second at eighteen, and R. H. Mongrieg, of Stevensville, Michigan, saved third place by getting fourteen rounds in the black.

The National Midwinter Pistol Championships, at Tampa, answered a question. All the handgun enthusiasts throughout the country wanted to know if Benner could beat Reeves again.

As you recall, Benner upset Reeves at the 1947 National Pistol Championships by taking the Detroit policeman's National crown away. The beating had been a sound one, yet every pistol shooter in the country kept asking . . . could Heulet Benner, the Army sergeant, do it again? The present National All-Around Pistol Champion gave his reply at Tampa. He won again, and this time left no doubt in anybody's mind as to who is the best all-around pistol shot in the U. S.

The pattern of Benner's Tampa victory over Reeves had a surprising similarity to his Camp Perry win. The Army sergeant again beat Reeves by seventeen points for the All-Around Championship, and took two out of the three of the caliber crowns. The one crown Benner missed out on was also again taken by Reeves. The one difference in the two meetings was that, whereas Benner missed out on the .45 caliber championship at Perry, he missed out on the .22 caliber title at Tampa.

In the All-Around Championship Benner posted a 2554 out of a possible 2700. As mentioned before, Reeves was seventeen points behind at 2537. Lt. Col. Walter Walsh, the perennial third-placer, finished in his accustomed spot with 2525. Class honors were taken by NRA President E. O. Swanson; Vito Perna, Quantico, Virginia; Robert Michens, Chillicothe, Ohio, and Walter Zematis, Quantico, Virginia.

The winter shooting classics are complete now that St. Pete, Coral Gables, and the new annual tournament at Calexico, Calif., have joined Tampa in providing firing lines on which winter-tired shooters can shoot

Harry Reeves took the .22 caliber championship with a 854.

Benner was second with 852 and Walsh third with 850. Going to the center-fire gun Benner was tops at 852, while Walsh gave Reeves a tough fight for second place finally outranking him at 847.

Benner, having a great sense for the dramatic, always saves his biggest surprise for the last. At Tampa it was his thirteen-point victory in the .45 caliber competition. Some people would concede that Benner was better than Harry with the two smaller guns, but with the big handgun there was no doubt as to who was top man. It was Reeves, and that is all there was to it. Benner again proved the skeptics wrong, getting an 850 to Reeves' 837. In this race Walsh lost his accustomed third spot to Vito Perna's 834.

Class winners in the .22 caliber championship were: Stanley Iverson, Chicago, Illinois, Expert; Vito Perna, Sharpshooter; Thomas Quinn, Marksman First Class; and Walter Zematis, Marksman. In the Center-Fire championship, class honors were divided among J. A. Hendrickson, Washington, D. C., Expert; Vito Perna, Sharpshooter; Robert Michens, Marksman First Class; and Walter Zematis, Marksman. Forty-five caliber class winners were: E. O. Swanson, Expert; George Gorham, Miami Beach, Florida, Sharpshooter; Leo Vance, Marksman First Class; and A. F. Capone, Miami Beach, Florida, Marksman.

The Tampa Midwinter was staged by the Tampa Police Pistol Club in conjunction with the Floridan Pistol Club.

Four days after the completion of the National Midwinters, the Flamingo Open Pistol Tournament opened in Coral Gables. Its leisurely pace served as a perfect shooting dessert for the faster-geared Florida West Coast shoot, and the competitors had plenty of time for sight-seeing and sun-bathing.

Benner did not make the trip to Miami, and Reeves had to pick up and go home early because of his father's death. With these two out of the way Alfred Hemming, of Detroit, Michigan, took first place in the All-Around Championship with 2527. L. M. Patterson finished second with 2521, and Thurman Barrier third at 2508. Expert Paul Baker, Sharpshooter John Mesko, Marksman First Class Arthur Snyder, and Marksman S. P. Mongelluzzo topped their respective classes.

Patterson—833, Barrier—817, and Walter Fletcher—812 finished one, two, three in the .45 caliber aggregate, with A. J. Sealey, Expert; John Mesko, Sharpshooter; and A. F. Capone, Marksman First Class, and Lassar Alexander, Marksman, topping the classes.

Reeves fired in the other two aggregates and took both. He got an 870 in the .22 caliber and 866 in the Center Fire. Hemming was second both times, with 863 and 861. Mark Billing's 861 was good for third place in the .22 caliber, while Barrier posted an 844 to finish third in the Center Fire competition.

Class winners in the .22 caliber aggregate were: Patterson, Expert with 844; J. F. Brogdon, Sharpshooter with 808; C. B. Railing, Marksman First Class with 831; and Walter Zematis, Marksman with 811. Expert Patterson repeated in the Center Fire aggregate, scoring an 834, while top Sharpshooter was Vito Perna at 823. Railing and Zematis duplicated Patterson's feat in their classes with 788 and 810.

As for the First Desert Cavalcade International Pistol Tournament held in Calexico, California, on March sixth, seventh, and eighth, here is what NRA West Coast Field Representative Lee Echols reported:

One of the greatest matches ever staged in the West came to a roaring close after three perfect days of firing in Calexico, California, on March sixth, seventh, and eighth.

The Calexico Gun Club amazed shooters from six western states and Mexico with their brand-new, ultra-modern range, rigged out in western style landscaping and forty air-operated targets. No less was the shooters' amazement at the three full nights of entertainment furnished by the friendly little Mexican border city of Calexico. . . . A western square dance on Saturday night with Alex Barron's cowboy orchestra whooping it up . . . a Hereford beef barbecue for 600 shooters and spectators Sunday afternoon, and the big closing presentation banquet at the country club immediately adjoining the range Monday night, where merchandise prizes, plaques, and medals were awarded.

The weather was warm and sunny, the wind was still, and the scores showed it as the newly formed California Civilian Club Team—composed of Churchman, Graham, Brown, and Adair—broke two civilian team records.

The Los Angeles Police, newly augmented by a fire-ball named Earle Farrant, dominated the team events, and Walter Stark, always a strong chips-down shooter, edged Farrant out of first place in the Grand Aggregate by two points, posting a score of 2550.

Outstanding attraction of the match was lovely little Gloria Norton who, with very little practice prior to the match, assumed mastery of the situation in the Center-Fire Police Course Match and took it with a score of 296. Not content with this, she then proceeded to set two national women's records with her newly acquired .45, one in the Timed Fire event with a score of 193, and the other over the Rapid Fire route when she posted 182. In appreciation of her fine sportsmanship on the range and her unbelievable shooting prowess, shooters and spectators at the tournament raised a goodly sum for the presentation of a pair of beautiful handmade cowboy boots to this winsome lass, who can make the best of 'em look at their hole card on the pistol range.

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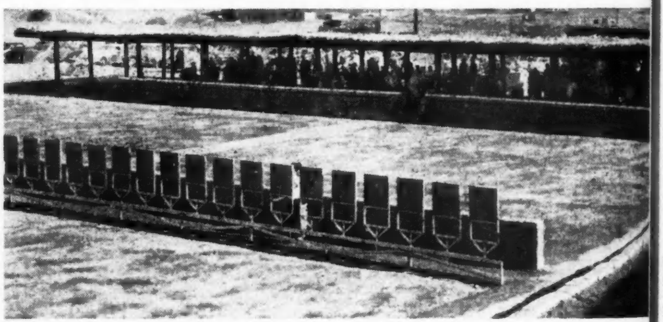
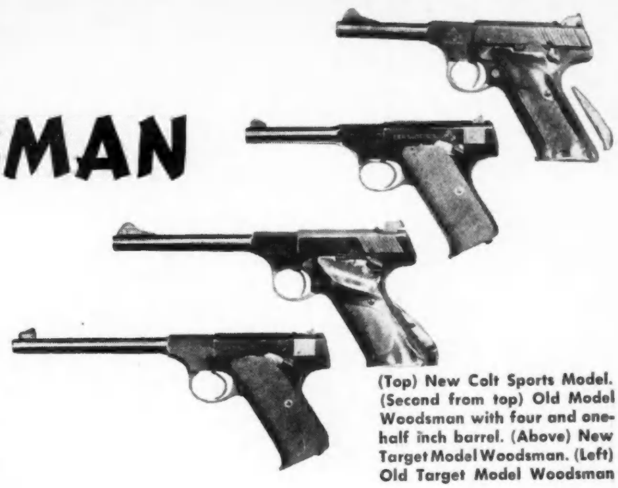


The Calexico, Calif., Gun Club boasts an excellent range for its newly-inaugurated annual Desert Cavalcade, complete with thatched firing line cov

IN THE JUNE RIFLEMAN: Shooters will find another of Colonel W. A. Tewes' non-objective lessons on the value of the coach in team shooting. Edwards Brown points to the need for a rifle which is physically adapted to junior shooters and criticizes those on the market which are intended to, but don't, fill that need. Ralph J. Totten, who has hunted in Africa, Europe, and the Western Hemisphere, sums up a lifetime to find that he has fired few more than two hundred shots at game in over forty years.

STREAMLINED WOODSMAN

By MAJ. GEN. JULIAN S. HATCHER



(Top) New Colt Sports Model. (Second from top) Old Model Woodsman with four and one-half inch barrel. (Above) New Target Model Woodsman. (Left) Old Target Model Woodsman

It was well over a quarter of a century ago that I got my first Woodsman. Only today, when I brought it in from the range with two new Colts that definitely put my old favorite in second place, did that Woodsman become obsolete.

Immediately following World War I, I was shooting at the Springfield Revolver Club and thought that nothing could compete with the ten-inch barreled single shot for top grade slow-fire accuracy. But one day I stopped in at Colt's in Hartford, just twenty-six miles down the road, and the late great J. H. 'Fitz' FitzGerald took a Woodsman out to the range for me to try. To my astonishment, I made about the best group and best score with it that I had made with any gun I had shot previously. So, the next day I went down to the hardware store on Main Street and bought a Woodsman for a price that would seem like giving the gun away today.

That Woodsman has never failed to perform, under any and all conditions. But the two new Colt Woodsman guns I shot today have everything the old gun has, and a lot more too. For some reason they shoot better groups more easily.

The two new guns just announced are members of what Colt calls 'the new streamlined Colt Woodsman family'—the Target Model Woodsman with a six-inch barrel, replacing the former six and one-half inch barrel model, and the Sport Model with a four and one-half inch barrel.

As to mechanism and appearance, the new guns are basically similar to the prewar models of the Woodsman. But the new designs have a number of important improvements and changes. One of the first things that will be noticed is that the grip at the rear is much longer, which makes the guns easier to hold. Because it was short in the grip, the old Woodsman crowded the hand downward where the curve of the grip pressed in between the thumb and forefinger. Ease of holding does aid in obtaining higher scores.

Next, the magazine catch has been removed from the bottom of the butt and placed just back of the trigger guard on the left side of the gun, as on the .45 M1911. This is much more convenient and more easily operated.

Again, looking at the left side of the gun, it can be noticed that the thumb safety has been enlarged and a slide stop has been added just forward of the safety. The slide remains open on the last shot. Thus, there is never any doubt—as there was with the old gun—of whether the last shot has been fired or another cartridge remains in the chamber. This feature is quite convenient when reloading or cleaning the gun.

An important improvement, which does not appear on the surface, is the magazine disconnector that prevents the gun from being fired when the magazine is out. Many accidents have resulted because people who are not too familiar with self-loading weapons often think they have unloaded a gun and made it safe by removing the magazine. They do not realize that a cartridge may be left in the chamber ready to fire. With the addition of the magazine disconnector, even though the fatal last cartridge may remain, it cannot go off once the magazine has been taken out.

One of the most desirable improvements on the gun is the new Colt Master rear sight, fully adjustable by clicks for both elevation and windage. The notch is of the square or Patridge type with a fixed blade front sight to match. The rear sight is undercut to kill all reflected light. On the Target Model the front sight is undercut to kill light reflection and on the Sport Model it is ramped and serrated for that purpose. All sights have a glare-proof matte finish, which is also applied on the top of the slide and receiver and on the front and rear strips where the receiver is gripped by the hand. This dull black matte surface is nonreflecting, nonchipping, and rust resistant, and contrasts nicely with the lustrous deep blue of the rest of the gun to give what is known as the Colt Dual-tone Blue, a very handsome effect indeed.

The grips are made of Coltrock plastic. The left grip on the Target Model has a shelf for the thumb, which the Sport Model does not.

Both guns are furnished with a pair of grip adapters, one large and one small, which can be attached in an instant with a screw which is already in the mainspring housing for that purpose. I fired the guns with and without adapters and got the best scores with the smaller adapter in place.

A new feature that you won't find unless you look for it is a concealed lanyard loop in the heel of the butt.

In the shooting that I have done with these new guns, I have gotten slightly higher scores with the Sport Model, but this is no surprise to me, as I had the old model Woodsman in both four and one-half and six and one-half inch barrel models and always seemed to do as well and sometimes better with the short one.

The Target Model has a six-inch barrel, and eight and three-eighths inches distance between sights. The gun weighs two pounds and one ounce with an empty magazine in it, and is ten and three-eighths inches over-all and four and five-eighths inches high. The Sport Model, with a four and one-half inch barrel and a seven and seven-eighths inch sight radius, weighs one pound and fifteen ounces. It is eight and one-half inches in over-all length.

As the reader will probably have surmised by now, the Colt people are not exactly giving these guns away. The Target Model brings seventy dollars and the Sport Model sixty dollars but they are quality articles and, as prices go these days, well worth the money.

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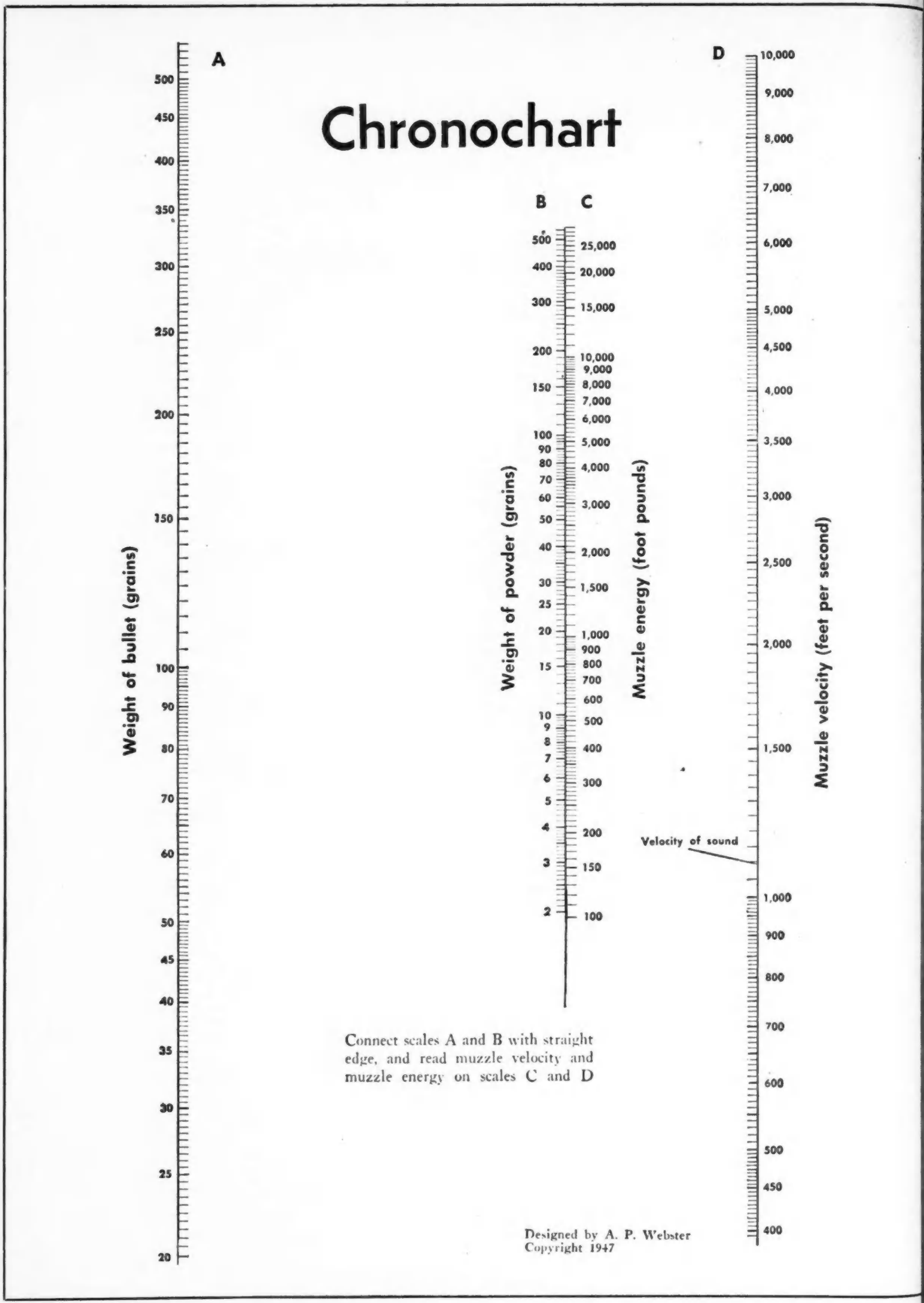
Chronochart



Connect scales A and B with straight edge, and read muzzle velocity and muzzle energy on scales C and D

Designed by A. P. Webster
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The Chronochart, Its Theory and Use

By A. P. WEBSTER, *Commander, HS, USNR*[1]

THE PURPOSE OF this article is to describe the theory behind and construction of a ballistic chart for ready estimation of certain ballistic properties of small arms. The chart is essentially composed of four scales, labeled A, B, C, and D. These scales are set up as follows: A, weight of bullet, grains; B, weight of powder, grains; C, muzzle energy, foot-pounds; D, muzzle velocity, feet per second.

The kinetic energy of the bullet at the muzzle of the gun is given by

$$E = \tfrac{1}{2}mV^2 \text{ foot-pounds},$$

where m is the mass of the bullet in slugs and V is the muzzle velocity in feet per second. In solving the above equation, the common difficulty encountered is in handling the mass, m. The slug of mass (which is extensively used by engineers and physicists) must be obtained for the bullet by dividing the weight of the bullet in *pounds* by the acceleration of gravity in feet per second per second. Since one pound is equal to 7,000 grains, we have

$$m = \frac{W_b}{7000g} \text{ slugs},$$

where W_b is the weight of the bullet in *grains* and g is the acceleration due to gravity taken as 32.174 feet per second per second. The Chronochart has been prepared, therefore, so that the A, C, and D scales solve the equation

$$E = \frac{W_b}{7000g} V^2 \text{ foot-pounds},$$

where

E = Muzzle energy, foot-pounds;
W_b = Weight of bullet, grains;
g = Acceleration due to gravity (32.174 ft./sec²);
V = Muzzle velocity, feet per second.

It follows that the A, C, and D scales can be used for determining the muzzle energy, given the muzzle velocity and weight of bullet; or for determining the muzzle velocity to give a desired muzzle energy knowing the bullet weight; or to determine the bullet weight to give a desired muzzle energy or muzzle velocity.

The A, C, and D scales may also be used for determining remaining energies, given the velocity, or remaining velocities to yield a desired remaining energy.

The A, B, and D scales solve the equation

$$V = 4850 \frac{W_p}{W_b} \text{ feet per second}$$

where

V = Muzzle velocity, feet per second;
W_p = Weight of powder, grains;
W_b = Weight of bullet, grains.

This equation is obtained by the following line of reasoning: The kinetic energy of the moving missile at the muzzle is given by

$$E = \tfrac{1}{2}mV^2, \text{ where } m = \frac{W_b}{7000g}$$

But the energy in the bullet must be some fraction of the total available energy in the powder, so that

$$E = c\,W_p, \text{ where } c = \text{constant}.$$

It follows that

$$\tfrac{1}{2}\frac{W_b}{7000g} V^2 = c\,W_p,$$

whence

$$V = \sqrt{14000\,g\,c}\sqrt{\frac{W_p}{W_b}}.$$

Letting

$$k = \sqrt{14000\,g\,c},$$

we have the equation on which scales A, B, and D are based:

$$V = k\sqrt{\frac{W_p}{W_b}}.$$

It becomes necessary, therefore, to evaluate the constant k. This constant was determined experimentally, using No. 1185 IMR powder loaded in service 180-grain ball, .30-'06 cartridges. The constant was checked against the following powders: HIV No. 2, No. 17½, Sharpshooter, Pyro, No. 2400, No. 1147, No. 3031, Unique, Lightning, and No. 80 with good average agreement. The determined constant is 4850, so that the Chronochart solves the equation

$$V = 4850\sqrt{\frac{W_p}{W_b}}.$$

The efficiency of the gun may now be calculated. The efficiency, η, is defined as the ratio of the useful work accomplished in imparting motion to the projectile to the total energy expended in burning the powder. The total available energy in practically all of the powders is closely given by 800 calories per gram, or 2469 foot-pounds per gram, or 165 foot-pounds per grain. Since the powder can yield 165 foot-pounds per grain, we have

$$\eta = \frac{\dfrac{W_b}{14000\,g} V^2}{165\,W_p}.$$

But

$$V^2 = 4850^2 \frac{W_p}{W_b}$$

so that

$$\eta = \frac{4850^2}{(14000)\ (165\ g)} = .3165.$$

The gun efficiency is then 31.65 percent. The energy per grain of powder expended in imparting motion to the bullet is then

$$165\ (.3165) = 52.2 \text{ foot-pounds per grain}.$$

You will note that the muzzle energy, C scale, is exactly 52.2 times the weight of the powder, B scale. Note also that I have neglected the energy to impart rotation to the bullet. This energy is only about seven foot-pounds for the .30-'06.

If accurate chronographing is available, the efficiency of a gun can be checked using the Chronochart by multiplying

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[1] The opinions or conclusions contained in this article are those of the author, and are not to be construed as reflecting views or the endorsement of the Navy Department.

Commander Webster's Chronochart is built around the supposition that the average powder used in modern rifle cartridges contains a potential energy of 165 foot-pounds per grain, and that the average rifle in which it is used is capable of converting 31.65 percent of this energy into bullet velocity.

As long as a suitable charge of powder of the proper granulation is used in a barrel of appropriate length, his supposition seems to be valid, and the Chronochart appears to give a very close indication of the velocity to be expected with any given bullet weight and powder charge.

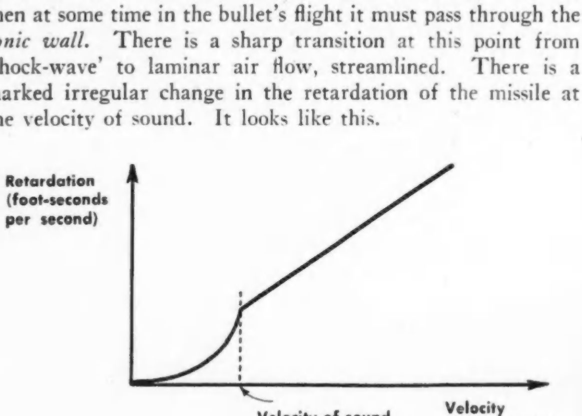
Rifles and ammunition of the usual factory design seem to fall within the workable limits of the chart.—MAJOR GENERAL JULIAN S. HATCHER.

31.65 times the ratio squared of the observed velocity to the chart calculated velocity:

$$\eta = 31.65 \frac{(V\ \text{obs.})^2}{V\ \text{calc.}}\ \text{percent.}$$

A significant point, ballistically, indicated on the chart, is the velocity of sound. I put this point on the chart to enable handloaders to obtain ideal weights of powder for maximum accuracy. The theoretical reasoning is as follows:

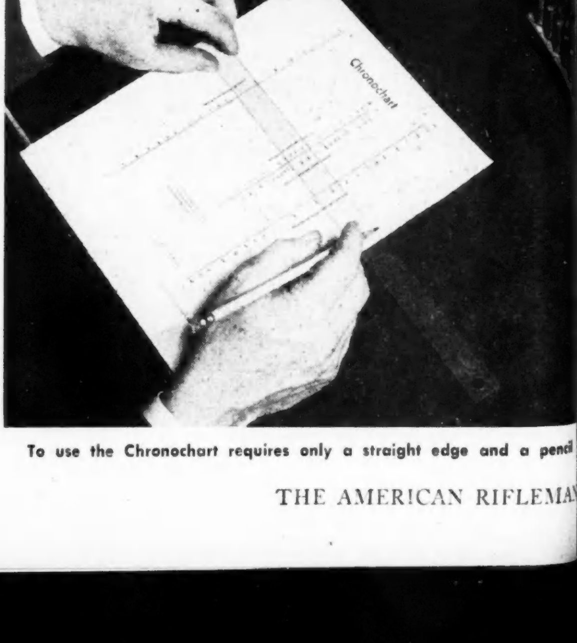
If a bullet has a muzzle velocity above the velocity of sound, then at some time in the bullet's flight it must pass through the *sonic wall.* There is a sharp transition at this point from 'shock-wave' to laminar air flow, streamlined. There is a marked irregular change in the retardation of the missile at the velocity of sound. It looks like this.



This sharp change in retardation in passing through the sonic wall, changing from shock-wave to laminar flow, affects the accuracy of the bullet by causing a disturbance in its flight path. It is desirable to have a flat trajectory for accuracy, so it follows that 'ideal' loads for accuracy will contain just sufficient powder to give a muzzle velocity to the bullet just below the speed of sound. This point marked on the Chronochart enables ready estimation of the weight of powder to produce best accuracy. The chart shows that the powder should be 1/20 the weight of the bullet to produce a muzzle velocity equal to the speed of sound. In this connection, about two years ago there was an article in the RIFLEMAN giving group sizes for various bullet weights and powder loadings. Using my chart to determine velocities, I observed that the smallest groups were given by loadings which were just sufficient to give a muzzle velocity close to the velocity of sound. For shooters who really want to go into this, I recommend the following muzzle velocities: *1037 feet per second at 32 degrees Fahrenheit. Add 1.1 foot per second for each degree rise in temperature above 32 degrees F.* For example, at 70 degrees F., velocity would be 1079 feet per second. This method gives a velocity approximately 50 feet per second below the velocity of sound to give a slight factor of safety.

I have had the opportunity, a number of times, to test my chart, being fortunate on one occasion in securing a 'wildcat' cartridge of unknown muzzle velocity. Tom Gresham dropped into my office one day with his pet .22 Niedner Magnum, a .25-35 Winchester necked down. He did not know the velocity, so one load was sacrificed for weighing the bullet and powder. The weighings were made on an analytical balance. The powder was found to weigh 26 grains (of 3031) behind a 55-grain Sisk soft point. The chart then gave a muzzle velocity of 3334 feet per second. The gun was then carefully set up in the laboratory and three rounds chronographed, giving 3370, 3335, and 3325 feet per second. This gave an average of 3343 feet per second for Tom's buzzard-slapper, or a difference of only 9 feet per second from the value given by the chart. The limit of error of the very fine chronograph used was 10 feet per second. In another test of the chart, I was asked by Naval Research Laboratory people to calculate the velocity of a special duplex loading of 22 grains behind a 129-grain missile. The chart gave 6334 feet per second, and on subsequent reference to the laboratory file it was found that the ballistic pendulum had given 6325. Dr. Edward L. Corey, University of Virginia, an old friend who taught me how to shoot, has a pet load, a 93-grain Luger bullet with 48 grains of 4198 behind it. The chart gives 348 feet per second and the bullet chronographed 3480 feet per second.

I do not expect the use of my chart to result in any disuse of the chronograph or ballistic pendulum, but I believe that in addition to solving energy and velocity problems, good estimations of muzzle velocity or powder weights can be quickly obtained. I feel that the chart can be a useful tool to all shooters and, if carefully used, it has a definite application where the experimenter is without laboratory facilities and desires to estimate the velocities of various loadings.



To use the Chronochart requires only a straight edge and a pencil

Small-Game Hunting Laws

THE SECOND ANNUAL RIFLEMAN SUMMARY OF STATE VARMINT-SHOOTING REGULATIONS

Compiled by JOHN S. ROSE

DON'T MAKE THE MISTAKE of thinking that no one cares how, when, or where you kill crows this summer. Just because 'Blackie' and other varmints have been tagged as pests, it is no reason to expect the game warden to greet with open arms all unlicensed or otherwise uninhibited off-season shooters. If you leave for a cross-country vacation trip with that impression, don't be surprised if those open arms close about your pet varmint rifle and a hand reaches for a wad of hard-earned vacation funds.

In our fathers' time a man could knock off a crow or coyote without giving a second thought to the legal angles involved. Today's hunter faces a different problem, however. A general trend of restrictive legislation has brought about a situation wherein only ten of forty-four states permit a nonresident to take arms against crows and other so-called 'undesirable animals' without first securing licenses which usually cost from ten dollars to twenty-five dollars, with average cost for such nonresident tags running around fifteen dollars.

The varmint shooter has also been hurt by the do-gooder who can't detect differences between the various species of hawks and owls when they are in the hand, let alone make identification when the target is airborne. It is perhaps unfortunate that of the 'birds of prey,' those which are easiest to kill perform the most known services to man. If you don't know enough about the animal to identify it accurately, how can you feel sure of its biological importance and ecological niche? The simple answer is that you can't.

The reason for much of the never-ending controversy over 'beneficial' and 'undesirable' species is brought about by the desire of hunters to shoot something.

Because of some guilt complex, they feel that varmint hunting must be justified in terms of 're-establishing Nature's balance' or some other such drivel. As a result, researchers are plagued with requests for the names of those birds and animals which are 'responsible' for game shortages. When the scientist remains cautious and perhaps ventures the timid opinion that all species have a place in the picture, he is trampled under a barrage of eye-witness reports that 'prove' otherwise.

This desire to kill something with a rifle is nothing to be ashamed of. It's the same healthy urge that is felt by the fly caster who tries to kill a lunker trout. Doping wind can be just as much an art as the waving of a three-ounce rod. Indeed, it is an almost universal desire to kill with a rifle, but far more becoming when the hunter does not turn his sport into a 'numbers game' where 'total score' is the important factor.

Our entire varmint hunting sport would be more wholesome if we were to select for our targets the three animals which have proven to be fairly resistant to hunting pressure, namely the crow, woodchuck, and coyote. Then respect them for the game that they are and bring to an end the old line of hypocritical rationalization which started with the yarn about 'hunting chucks to keep the farmer's horse from breaking a leg in one of their dens.'

Alabama—To hunt woodchuck, crow, bobcat, cougar, wolf, Cooper's hawk, sharp-shinned hawk, great horned owl, turkey vulture, black vulture, a resident county ($1.00), a resident state ($3.00), a nonresident annual ($25), or a nonresident seven-day ($5.00) license is required. There is no closed season or bounty paid on these animals. All shotguns must be smaller than 10 gauge and plugged to hold not more than three shells, two in the magazine.

Arizona—To hunt crow, prairie dog, ground squirrel, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, no license is required. There is no closed season or bounty paid on these animals. To hunt jack rabbit, coyote, bobcat, cougar, wolf, a resident license ($2.50) or a nonresident license ($10) is required.

Arkansas—To hunt woodchuck, crow, jack rabbit, coyote, ground squirrel, bobcat, cougar, wolf, Cooper's hawk, goshawk, sharp-shinned hawk, and great horned owl, a resident license is not required. A $25.00 nonresident license is required to hunt all game except fur-bearing animals, or a $15.00 nonresident license is required to hunt all game except deer, turkey, and fur-bearing animals. There is no closed season or bounty.

California—To hunt crow, coyote, ground squirrel, bobcat, cougar, marmot, Cooper's hawk, sharp-shinned hawk, great horned owl, no license is required. After July 1 a $3.00 resident or $10.00 nonresident license will be required to hunt jack rabbits. There is no closed season on these animals. A $60 bounty is paid on female cougar, $50 on male cougar.

Colorado—To hunt crow, prairie dog, jack rabbit, coyote, ground squirrel, bobcat, cougar, wolf, marmot, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, a resident ($3.00) or a nonresident license ($10) is required. There is no closed season on these animals. A bounty of $50 is paid on cougar. Rifles, other than .22 caliber semiautomatics, are limited to five-round magazine capacity.

Connecticut—To hunt woodchuck, crow, bobcat, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, a resident license (hunting $4.35 or combination $6.35) or a nonresident license (hunting $11.35 or combination $15.35) is required.

Delaware—To hunt woodchuck, crow, bobcat, sharp-shinned hawk, great horned owl, turkey vulture, black vulture, a resident license ($1.25) or a nonresident license ($15.50) is required. There is no closed season or bounty paid on these animals.

Florida—To hunt crow, bobcat, cougar, Cooper's hawk, sharp-shinned hawk, great horned owl, no license is required. However, these animals may be hunted only during regular open game seasons. There is no bounty paid on them.

Georgia—To hunt woodchuck, crow, bobcat, Cooper's hawk, sharp-shinned hawk, great horned owl, turkey vulture, black vulture, a resident license ($3.25) or a nonresident ($12.50) is required. There is no closed season or bounty paid on these animals. Shotguns are limited to three-round capacity.

Idaho—To hunt woodchuck, crow, prairies dog, jack rabbit, coyote, ground squirrel, bobcat, cougar, wolf, hoary marmot, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, turkey vulture, black vulture, a resident license ($2.00) or a nonresident license ($2.00) is required. There is no closed season. There is a bounty varying from $2.00 to $5.00 paid on coyote and bobcat, and a $50 bounty is paid on cougar by livestock association.

Illinois—To hunt woodchuck, crow, bobcat, coyote, ground squirrel, wolf, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, black vulture, a resident license ($2.00) or a nonresident license ($15.00) is required. There is no closed season or bounty.

Indiana—To hunt woodchuck, crow, wolf, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, a resident license ($1.50) or a nonresident license ($15.50) is required. There is no closed season or bounty paid on these animals.

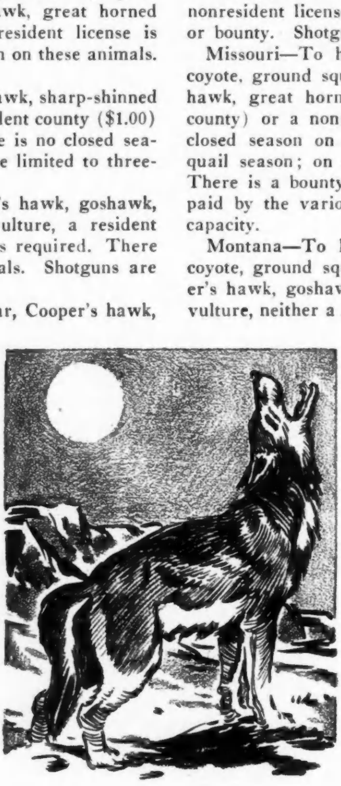
Iowa—No information could be obtained on laws.

Kansas—To hunt woodchuck, crow, prairie dog, jack rabbit, coyote, wolf, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, a resident license is not required. A nonresident license is required (fee unknown). There is no closed season on these animals. The only bounty paid for coyote is $1.50.

Kentucky—To hunt woodchuck, crow, Cooper's hawk, sharp-shinned hawk, great horned owl, resident state ($3.00), resident county ($1.00) or nonresident ($15.50) license is required. There is no closed season or bounty paid on these animals. Shotguns are limited to three-round capacity.

Louisiana—To hunt crow, bobcat, wolf, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, turkey vulture, a resident license ($2.00) or a nonresident license ($25.00) is required. There is no closed season or bounty paid on these animals. Shotguns are limited to three-round capacity.

Maine—To hunt woodchuck, crow, bobcat, cougar, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, a resident license ($2.25) or a nonresident license ($10.25) is required. There is no closed season. A bounty of $15.00 is paid on bobcat. Automatic firearms are prohibited. Semiautomatic and repeating arms may be used provided the capacity of the magazine and chamber does not exceed six cartridges.



Maryland—To hunt woodchuck, crow, ground squirrel, bobcat, cougar, wolf, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, turkey vulture, and black vulture, neither resident nor nonresident licenses are required. No bounty or closed season except in Baltimore county where varmint hunting is illegal except during the upland game and waterfowl seasons.

Massachusetts—To hunt woodchuck, ground squirrel, crow, bobcat, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, a resident license ($2.00) or a nonresident license ($10.25) is required. There is no closed season or bounty paid on these animals.

Michigan—To hunt crow, coyote, bobcat, wolf, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, turkey vulture, black vulture, a resident license ($2.00) or a nonresident license ($15.00) is required. There is no closed season on these animals. However, firearms may not be carried between sunset and sunrise in game areas.

To hunt woodchucks, a license is required as above. The closed season on woodchucks is: October 1 to March 1 in Upper Peninsula, October 15 to January 31 in Lower Peninsula north of north line of Town 16N, October 15 to December 31 south of north line of Town 16N.

Bounties are paid to Michigan residents only. They are: On male coyote, $15.00; on female coyote, $20.00; on red fox, $5.00; on bobcat in Upper Peninsula only, $5.00; on male wolf, $15.00; on female wolf, $20.00.

It is unlawful to possess firearms in game areas without a license. During deer season it is unlawful to possess a rifle larger than .22 caliber or a shotgun with buckshot, ball, slug load, or cut shell unless in possession of a deer license.

During open season on small game, but during closed season for taking deer with firearms, it is unlawful to possess, between sunset and sunrise, a rifle larger than .22, or a shotgun with buckshot, ball, slug load, or cut shell.

It is unlawful to use an automatic, a semiautomatic, or an autoloading rifle or shotgun larger than .22 caliber that is capable of holding more than six shells or cartridges in the barrel and magazine.

During the five days immediately preceding firearm deer season, it is unlawful to carry or transport in deer area a rifle larger than .22 caliber or a shotgun with buckshot, ball, slug, load, or cut shell except for transporting hunting arms to hunting camp.

Minnesota—To hunt woodchuck, coyote, ground squirrel, bobcat, wolf, residents are not required to have licenses. A $25.00 nonresident license is required. To hunt crow, Cooper's hawk, sharp-shinned hawk, great horned owl, a resident license is not required. However, nonresidents are not permitted to hunt these birds. To hunt jack rabbit, a resident is required to have a $1.00 license and a nonresident must have a $25.00 license. There is no closed season. The bounty for wolf is $15.00.

Mississippi—To hunt crow, bobcat, Cooper's hawk, sharp-shinned hawk, great horned owl, a resident license is not required but a nonresident license ($15.25) is required. There is no closed season or bounty. Shotguns are limited to three-round capacity.

Missouri—To hunt wood chuck, crow, prairie dog, jack rabbit, coyote, ground squirrel, bobcat, wolf, Cooper's hawk, sharp-shinned hawk, great horned owl, a resident license ($2.50 state or $2.00 county) or a nonresident license ($15.00) is required. There is a closed season on woodchuck, jack rabbit for nine days preceding quail season; on coyote, bobcat, wolf during two-day deer season. There is a bounty on coyote, bobcat, and wolf from $2.00 to $20.00 paid by the various counties. Shotguns are limited to three-round capacity.

Montana—To hunt woodchuck, crow, prairie dog, jack rabbit, coyote, ground squirrel, bobcat, cougar, wolf, hoary marmot, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, turkey vulture, neither a resident nor nonresident license is required. There is no closed season. There is a bounty on coyote (individual stockman's associations and counties); bobcat, $2.00; cougar, $25.00; and a co-operative bounty of $.05 on crows and magpies with sportsman's clubs.

Nebraska—To hunt woodchuck, crow, prairie dog, jack rabbit, coyote, ground squirrel, red fox, gray fox, bobcat, cougar, wolf, badger, marmot, Cooper's hawk, goshawk, sharp-shinned hawk, neither a resident nor nonresident license is required. There is no closed season or bounty.

Nevada—To hunt crow, prairie dog, jack rabbit, coyote, ground squirrel, bobcat, Cooper's hawk, goshawk, wolf, hoary marmot, sharp-shinned hawk, great horned owl, cougar, a resident license ($3.00) or a nonresident ($10.00) is required for hunters not under 16 years of age. There is no closed season.

New Hampshire—To hunt woodchuck, crow, red fox, gray fox, bobcat, goshawk, sharp-shinned hawk, great horned owl, a resident license ($3.60) or a nonresident license ($15.25) is required. There is no closed season. A bounty of $20.00 is paid for bobcat.

New Jersey—To hunt crow, a resident license ($3.15) or a nonresident license ($15.50) is required. Crows may be killed at any time there is an open hunting season on any game bird or game animal provided the killing of this varmint is done in a locality where the game birds and animals, on which there is an open season, are to be found. In other words, a person could not go into the woods and fields hunting crows during the waterfowl season, but he must restrict his hunting to waterfowl areas. There is no hunting on Sunday. A bounty of $.50 may be paid for woodchucks by Board of Freeholders. All hunting is limited to a shotgun except that a special permit is issued whereby persons may use a rifle for the killing of woodchucks during the open season. Woodchuck season is closed except for approximately three months in late summer. Season dates for 1948 are not available in time for publication.

New Mexico—To hunt crow, prairie dog, jack rabbit, coyote, ground squirrel, bobcat, cougar, wolf, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, turkey vulture, black vulture, a resident license is not required but a nonresident license ($10.00) is required. There is no closed season (except on dusky or 'whistling' marmot which is closed all year) and no bounty. Shotguns are limited to three rounds.

New York—To hunt woodchuck, crow, jack rabbit, bobcat, cougar, wolf, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, a resident license ($1.65) or a nonresident license ($10.50) is required. There is no closed season or bounty. Semiautomatics are limited to six rounds.

North Carolina—To hunt woodchuck, crow, bobcat, cougar, wolf, Cooper's hawk, sharp-shinned hawk, great horned owl, a resident license ($3.10) or a nonresident license ($15.75) is required. There is no closed season or bounty.

North Dakota—To hunt woodchuck, crow, prairie dog, jack rabbit, coyote, ground squirrel, bobcat, cougar, wolf, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, turkey vulture. neither a resident nor nonresident license is required. There is no closed season. A bounty of $5.00 is paid on coyote, bobcat, and wolf. Shotguns may not be carried afield from July 1 to the opening date of hunting season.

Ohio—To hunt woodchuck, crow, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, a resident license ($1.25) or a nonresident license ($15.25) is required. There is no closed season. A bounty is paid at option of Board of County Commissioners on crow.

Oklahoma—To hunt crow, prairie dog, jack rabbit, coyote, bobcat, wolf, Cooper's hawk, sharp-shinned hawk, great horned owl, a resident license ($1.25) or a nonresident license ($15.00) is required. A bounty of $2.50 is paid on coyote, bobcat, and wolf.

Oregon—To hunt crow, jack rabbit, coyote, ground squirrel, bobcat, cougar, wolf, Cooper's hawk, sharp-shinned hawk, great horned owl, turkey vulture, black vulture, a resident license ($3.00) or a nonresident license ($25.00) is required. There is no closed season. A bounty is paid on bobcat ($2.50 when matched by county), cougar ($50.00), and wolf ($30.00).

Pennsylvania—To hunt crow, ground squirrel, bobcat, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, a resident license ($2.00) or a nonresident license ($15.00) is required. There is no closed season. On woodchucks, the license requirements are as above with no closed season until September 9, 1948. A bounty is paid on goshawk (adult $2.00, fledgling $1.00); great horned owl (adult $4.00, fledgling $2.00). Bounties are paid to residents only.

Rhode Island—To hunt woodchuck, crow, bobcat, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, turkey vulture, a resident license ($2.25), unless actually domiciled on land hunted, or a nonresident license ($10.25) is required. There is no closed season or bounty. No rifles larger than .22 caliber and no shotguns with single slugs or balls are permitted.

South Carolina—To hunt woodchuck, crow, bobcat, Cooper's hawk, sharp-shinned hawk, great horned owl, turkey vulture, black vulture, a resident license (state $3.10, county $1.10) or a nonresident license ($15.25) is required. There is no closed season and no bounty.

South Dakota—To hunt crow, woodchuck, prairie dog, ground squirrel, wolf, Cooper's hawk, sharp-shinned hawk, great horned owl, neither a resident nor a nonresident license is required. Jack rabbit, coyote, bobcat may be killed without license by residents, but may not be hunted or killed by nonresidents. There is no closed season. A bounty on crows of $.10 is paid to residents only.

Tennessee—To hunt woodchuck, crow, bobcat, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, turkey vulture a resident license ($2.00), except when hunting on land upon which one is actually domiciled, or a nonresident license ($15.00 season, $5.00 two-days) is required. There is no closed season or bounty. Shotguns are limited to three rounds.

Texas—To hunt woodchuck, crow, prairie dog, jack rabbit, coyote, ground squirrel, bobcat, cougar, wolf, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, turkey vulture, black vulture, neither a resident nor a nonresident license is required. There is no closed season. A bounty of not more than $5.00 is paid on bobcat, cougar, and wolf.

Utah—To hunt woodchuck, crow, prairie dog, jack rabbit, coyote, ground squirrel, bobcat, cougar, wolf, Cooper's hawk, sharp-shinned hawk, neither a resident nor a nonresident license is required. There is no closed season. A bounty is paid on coyote and bobcat ($6.00), cougar ($25.00), and wolf ($9.00).

Vermont—To hunt woodchuck, crow, bobcat, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, a resident license ($1.75), unless actually domiciled on land hunted, or a nonresident license ($12.50) is required. There is no closed season. A bounty of $5.00 is paid on bobcat.

Virginia—To hunt woodchuck, crow, bobcat, cougar, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, turkey vulture, black vulture, a resident license ($3.00) or a nonresident license ($15.50) is required. There is no closed season and no bounty. Shotguns are limited to three rounds and may not be larger than 10 gauge.

Washington—To hunt woodchuck, crow, prairie dog, jack rabbit, coyote, ground squirrel, bobcat, cougar, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, neither resident nor nonresident license is required. There is no closed season. A bounty is paid on crow ($.10), coyote, bobcat ($5.00), cougar ($50.00). Bounty may be collected only by a licensed resident, $5.00.

West Virginia—To hunt woodchuck, crow, bobcat, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, a resident license ($2.00) or a nonresident license ($15.00) is required. Closed season on woodchuck is January 1 through June 30. A bounty of $4.00 is paid on bobcat.

Wisconsin—To hunt crow, coyote, ground squirrel, bobcat, wolf, great horned owl, a resident license ($1.50) or a nonresident license ($25.00) is required. There is no closed season. Woodchuck and jack rabbit are protected with closed seasons and geographical restrictions by county. Laws on these animals vary from year to year and are not as yet published for the coming season. A bounty is paid on coyote (adult $20.00, pups $10.00); bobcat ($5.00); wolf (adult $20.00, pups $10.00). Rifles larger than .22 rimfires and shotguns loaded with shot larger than No. 1 shot may not be carried in deer areas from April 1 to January 1 unless the hunter has first obtained a permit from the Wisconsin Conservation Department.

Wyoming—To hunt woodchuck, crow, prairie dog, jack rabbit, coyote, ground squirrel, bobcat, cougar, wolf, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, neither resident nor nonresident licenses are required. There is no closed season or bounty.

1948 NATIONAL MATCHES

SINCE PERRY TIME last year, the return of .30 caliber events to the National Matches in 1948 after an absence of seven years has been hopefully planned. As yet, however, no definite word on the National .30 Caliber Matches has been made public, since their presence in the '48 National Match program is completely dependent upon the appropriation the Army receives from Congress. The Congress is expected to consider the Army appropriation bill soon. To assist the Congressional Committee in its appraisal of the National Matches, the National Rifle Association has been active in gathering facts and figures to show the value of the matches to the nation.

If sufficient funds for the conduct of the National Matches are in the Army appropriation, the probable schedule will be as follows: National Pistol Matches, August 8 to 14; National .30 Caliber Rifle Matches, August 15 to 28; and the National NRA Small-Bore Rifle Championships, August 29 to September 4.

The NRA Executive Committee's reason for establishing the four-week Camp Perry schedule is that the Pistol Matches and the NRA National Small-Bore Championships now have so many entries, each requires all of the facilities available on the Camp Perry range. It is no longer possible to conduct the two types of matches simultaneously. Although not too many pistol shooters fire small bore also or vice versa, a large number of both pistol and small-bore shooters will desire to fire in the National .30 Caliber Matches. The schedule, therefore, has been arranged so that both pistol shooters and small-bore rifle shooters can compete in the .30 Caliber Matches at Perry, if they are held, by staying only three weeks.

If the necessary appropriation for the National .30 Caliber Matches is not made by Congress, it will be impossible to hold these matches in 1948, of course. Regardless of whether or not the .30 Caliber Matches are held, the National Rifle Association will hold the National NRA Pistol Championships and the National NRA Small-Bore Rifle Championships provided the necessary Marine Corps personnel is available to conduct the matches, the same as last year. It would not be possible to hire sufficient civilian personnel to conduct the National Championships at Camp Perry; arrangements would then have to be made for the matches to be conducted elsewhere.

It is hoped that the June issue of THE AMERICAN RIFLEMAN will carry more complete information, including a definite yes or no, about National .30 Caliber Matches for this year.

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News

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LONDON

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A few additional preliminary tryout locations have been arranged since the April issue of the Rifleman came out. The list below gives date and location of all preliminary tryouts that have been arranged up to the time this issue went to press. We hope to add a few additional locations, if possible, in order to completely cover the country. (See Coming Events and the NRA Outdoor Tournament Schedule for whom to write to obtain programs.)

Small Bore Rifle

May 15-16	Texas	Dallas, Texas
May 22-23	Pennsylvania	Harrisburg, Pa.
May 22-23	Arkansas	Camp Robinson, Ark.
May 23	Washington	Seattle, Wash.
May 23	Vermont	Springfield, Vt.
May 29-30	New Jersey	Sea Girt, N. J.
May 29-30	Tennessee	Knoxville, Tenn.
June 5-6	North Carolina	Asheville, N. C.
June 5-6	California	Richmond, Calif.
June 6	Wisconsin	Milwaukee, Wisc.
June 6	Utah	Salt Lake City, Utah
June 6	Michigan	Lincoln Park, Mich.
June 11-12-13	California	Santa Barbara, Calif.
June 12-13	Washington	Seattle, Wash.
June 12-13	Oklahoma	Tulsa, Okla.
June 12-13	Connecticut	Meriden, Conn.
June 13	Colorado	Denver, Colo.
June 13	New York	Oneida, N. Y.
June 13	Illinois	Wheaton, Ill.
June 19-20	Ohio	Mt. Gilead, Ohio
June 20	Indiana	Michigan City, Ind.
June 20	Minnesota	Willmar, Minn.
June 26-27	Indiana	South Bend, Ind.
June 26-27	Iowa	Des Moines, Iowa
June 26-27	Texas	Dallas, Texas
June 26-27	Oregon	Portland, Oreg.
July 3-4	Colorado	Denver, Colo.
July 3-4	Florida	St. Petersburg, Fla.
July 4-5	Pennsylvania	Altoona, Pa.
July 4-5	Montana	Anaconda, Mont.
Date Unknown	New Mexico	Location Unknown

Free Rifle

June 19	Olympic Tryouts	Denver, Colo.
July 4	Olympic Tryouts	Seattle, Wash.
Date Unknown	Olympic Tryouts	Des Moines, Iowa
Date Unknown	Olympic Tryouts	Quantico, Va.

Pistol

May 22-23	North Carolina	Durham, N. C.
June 5-6	Pennsylvania	Harrisburg, Pa.
June 6	Oregon	Portland, Oreg.
June 12	Iowa	Davenport, Iowa
June 16-17	California	Oakland, Cal.
June 20	Georgia	Gainesville, Ga.
June 20	Colorado	Denver, Colo.
June 20	Illinois	Bensonville, Ill.
June 25-26-27-28	Florida	Jacksonville, Fla.
June 25-26-27	Colorado	Denver, Colo.
June 27	California	Los Angeles, Calif.
July 2-3-4	Louisiana	Shreveport, La.
July 3-4-5	Virginia	Quantico, Va.
Date Unknown	Washington	Seattle, Wash.

It will be advisable to shoot a preliminary tryout as soon as possible. Later tournaments may be attended but earlier tryout attendance will make it possible for shooters to receive timely notice of a forthcoming invitation to the Finals. If shooters wait to fire their preliminary tryouts over the Fourth of July week end, they may find their invitation to shoot in the Finals so late in arriving that they cannot arrange to attend. The Olympic Rifle and Olympic Pistol Committees will select those competitors who will be invited to compete in the finals at Quantico, July 10-11.

Shooters will be invited to compete in the Finals for a place on one squad only—small-bore rifle, free rifle, slow-fire pistol, or rapid-fire (bobber type) pistol. Each squad in the Olympic Shooting Games will consist of three shooters and competition by a single individual in the Quantico Finals for a place on more than one squad will not be permitted.

Each competitor will fire the Olympic Match Course four times, twice on each of the two days. Selection of Olympic squad members in the Finals will be entirely on the basis of total scores fired. The three high-scoring competitors in each type of competition for the four times over the course will be selected to represent the United States.

To assist the shooters of the far West, arrangements have been made to bring successful candidates to Quantico by air without any charge for transportation. Those individuals from the West who are unsuccessful in winning places on the teams in the Finals will be returned to their homes in the same manner.

The dates for the Final Tryouts at Quantico (July tenth and eleventh) have been set as late as possible to enable the NRA to hold the greatest number of preliminary tryouts and to enable the successful candidates for the Olympic squad to go directly from Quantico to New York, where they will sail at noon on July fourteenth. This arrangement is necessary so that the squad may arrive at Bisley in time for the rifle and pistol matches, August second to sixth.

Those individuals who make the team will not be permitted to return to their homes because of the insufficient time. Following their selection as team members, every moment of their time will be spent in securing passports, being fitted for uniforms, and making other necessary arrangements incident to sailing on July fourteenth. All persons attending the Final Tryouts at Quantico are therefore warned to come to Quantico prepared to attend the Olympic Games in London, if they make the squad, without going home between Quantico and sailing time. Persons attending the Quantico Finals should bring their birth certificates with them. They should also inform themselves in advance as to any other requirements that may be necessary in securing passports and come fully prepared to meet such requirements. The time available between final selection of the team and its sailing is not sufficient to make up for failure to meet these requirements.

Except for those from the far West, individuals invited to the Finals at Quantico will come to Quantico at their own expense. Those who make the final Olympic Squad will have their expenses paid from Quantico to London and return to their homes.

KARL T. FREDERICK,
Chairman,
Olympic Pistol Committee,
61 Broadway,
New York, N. Y.

M. A. RECKORD,
Chairman,
Olympic Rifle Committee
1600 Rhode Island Ave
Washington 6, D. C.

German Hunting Bullets

By PHILIP B. SHARPE

MUCH HAS BEEN SAID in print recently of German developments in military rifles and ammunition, of German machine pistols, and of the 'magnificent German semi-automatic pistols.' No one has given much attention to the developments in German hunting-type bullets.

Before the recent war, Germany had two major ammunition makers: The *Deutsche Waffen- und Munitionsfabriken* with products bearing the famous brand 'DWM,' and the *Rheinische-Westfaelische Sprengstoff Actien-Gesellschaft* with a variety of internationally known brands such as 'RWS,' 'Sinoxid,' 'H. Utendoerffer,' the letter 'R' in a shield, 'U' in a shield, an acorn (eichel) in a shield, 'GECO,' and a few others. RWS was founded in 1856 and DWM began life in 1872. These two firms were the Winchester and Remington of Germany.

The developments of these firms, primarily makers of sporting bullets, are particularly important today since the evolution of many wildcat cartridges has created a demand for *different* expanding bullets—expanding bullets which will deliver controlled wounding performance accurately at the super-velocities now obtainable.

In America there have been many interesting developments in hunting types of bullets. To briefly review them, we have the ordinary long, exposed soft point; the short, exposed soft point; the Remington Umbrella point; the Remington Bronze point; the Newton wire point; the Newton paper-insulated core; the Hoxie hollow point with a steel ball inserted in the cavity and the soft nose swaged around it; the familiar hollow-point Express type; the Explosive large caliber with a .22 blank set into a hollow-nose soft point; the Peters Belted; the inner-belted; numerous types of protected points; the Silvertips; and so on.

German hunting bullets went over the hill with some of these ideas and many variations of them, including iron cores and sectional aluminum cores, were manufactured. From these evolved some practical bullets for high-power and military rifle cartridges.

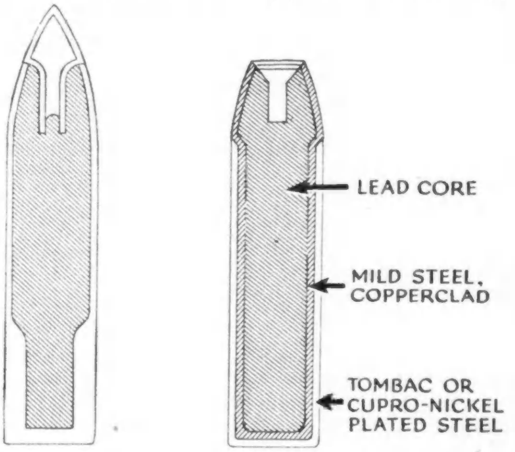
DWM offered, and protected with world patents, a very interesting bullet which they called the 'Strong Jacket.' This bullet was made in a variety of calibers, weights, and nose types, running from round and pointed soft points through hollow points and hollow-tube types. In Germany it was called *Starkmantelgeschosse*. All of these that this writer has seen had jackets of *tombac*, the German name for gilding metal, which appeared very hard. *Tombac* is about 90 percent copper and 10 percent zinc. The jacket is unusually thick at the base. The base thickness extends approximately one-third the length of the sidewalls, the rest of the jacket being thin.

The theory of the Strong Jacket is that upon impact with flesh, the thin jacket walls at the nose will split and the bullet will start to expand. However, the bullet will not disintegrate since the thick base section of the jacket holds it together, thus giving deep penetration.

I imported a batch of these bullets from DWM in 1933, when they first made their appearance. Test firing was very disappointing. Shooting into bundles of wet and dry pulp paper magazines, packed tightly, the bullets failed to live up to expectations. In many cases the entire jacket down to the thick base section would disintegrate, the core would fragment, and the only sizable fragment of the jacket that could be recovered would be the base section denuded of all traces of core.

Perhaps the weakest point in the Strong Jacket design is the simple fact that the resistance of the heavy jacket walls to the rifling reduces velocity and builds pressures. At Du Pont's Burnside Laboratory in September, 1934, I spent a week in research with experimental loadings. I used four types of 7 mm. caliber 154-grain DWM hunting bullets. Powder used for this test was IMR 15½. A 45-grain charge with a conventional DWM jacketed bullet showed a velocity of 2,550 feet per second and a pressure of 46,330 foot-pounds. The same charge with the Strong Jacket showed a velocity of 2,500 feet per second and a pressure of 52,500 foot-pounds. With the conventional jacketed bullet, reducing the charge to 44.5 grains showed a velocity of 2,525 and a pressure of 43,200, but with the Strong Jacket velocity was only 2,470 and pressure 51,000. The charge was further reduced to 44.0 grains and the conventional jacketed bullet showed a velocity of 2,439 with a pressure of 43,100. With the Strong Jacket, velocity was 2,434 and pressure up to 49,200.

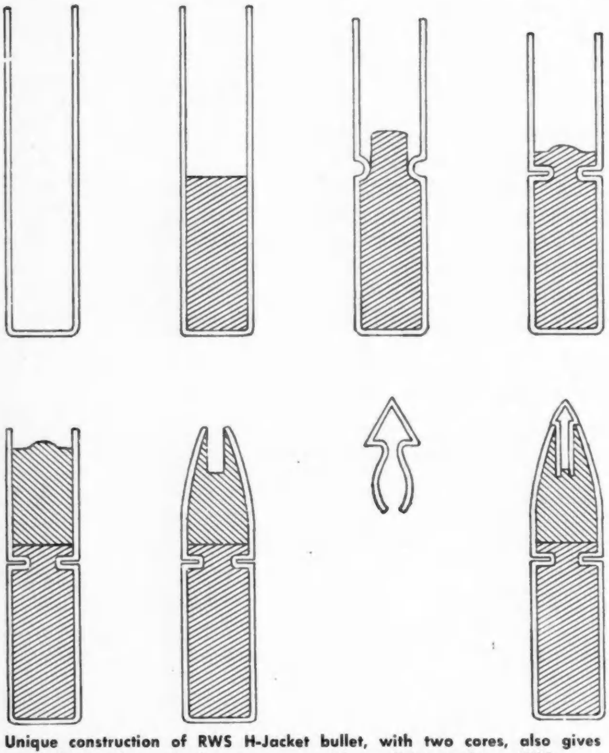
The shot-by-shot notes of this test showed a slightly greater velocity variation with the heavy jacket and a *much* greater pressure variation. Some of the 45-grain loads recorded 56,000 pounds pressure. The bullet did not perform well except when loaded to shoot at lower velocities.



Thick jacket at base of DWM Strong Jacket bullet (left) prevents fragmentation when bullet expands upon flesh. RWS D-Mantel bullet (right) was designed with two jackets to give better high-velocity performance

About 1933 RWS came out with the H-Jacket bullet, also. In my opinion, this is one of the best bullet designs ever attempted. I imported some of the standard 7 mm. Mauser hunting loads and a batch of bullets for handloading, direct from the Nuremberg plant. The 7 mm. bullet was a very slight boattail, weighed 173 grains, had a hollow copper-tube nose, and because of the heavy German loading (far above American standards) performed exceptionally well in my old 7 mm. Model 54.

Tests with RWS factory ammunition at Burnside Laboratory, also in 1933, showed an average instrumental velocity (20 shots) at seventy-eight feet of 2,634 feet per second, with a maximum variation of only 30 foot-seconds and a mean variation of only 6 foot-seconds. Pressures were high but very uniform—averaging 55,250, with a maximum of 56,500 on two shots. Powder was the German Rottweiller flake, type No. 2, with a 47.8-grain charge.



Unique construction of RWS H-Jacket bullet, with two cores, also gives expansion and penetration on game without disintegrating. With case trimmed to size (above, left), half-length lead core is inserted (above, second from left), cannelure is rolled near top of half-core (above, second from right), and core and jacket are compacted tightly (above, right). Second half core is inserted (below, left), nose swaged to shape (below, second from left), and any one of a number of points inserted (below, right)

The performance of these RWS bullets left little to be desired. According to the data supplied by the RWS factory at the time, the forward half of the bullet would disintegrate upon impact, while the rear half remained as an undeformed slug to give deep penetration, usually through the game, creating a severe wound and almost assuring a blood trail. They would do just this.

The performance of the H-Jacket is due to its interesting construction. After the open-end jacket is drawn to shape and trimmed, a half-length lead core is inserted in the jacket and swaged home. At the top of this half-core, a wide, deep cannelure is rolled—smooth, not knurled. An internal punch then reswages the jacket, tightly compacting both jacket and core, and creating a 'fold' in the jacket. A small surplus of the lead core flows up into the front half, protecting the fold.

Following this, an additional 'half-core' of lead is inserted into the jacket and swaged home. Various types of noses are then swaged, including a pointed soft point, hollow point, and hollow copper tube. I found that the copper-tube type gave the best performance.

It will be seen that the fold in the jacket cannot 'strengthen' the bullet. Upon impact the front half disintegrates into tiny fragments, the jacket rupturing at the fold. The two-piece core seems to aid this fragmentation.

During the mid-1930's, I test-fired approximately 500 of these bullets and *not one* failed to perform as promised. It proved to be a wonderful killer on game. While overseas I obtained quantities of RWS ammunition, loaded with these bullets, in a variety of foreign sporting calibers for myself and others in the service who wanted to use souvenir rifles for deer, roebuck, and boar hunting. All who had an opportunity to shoot them advised me that the H-Jacket was the best hunting bullet they had ever used.

The final development in hunting bullets was the RWS D-Mantel or double jacket. At the factory, Director Karl Weiss, whom I had known for more than twenty years, told me that the D-Mantel was designed primarily to give better high-velocity performance in the 6.5 mm. Mannlicher-Schoenauer. It was soon added to both the rimmed and rimless 6.5 mm. Mauser (6.5x57) ammunition and to the 6.5x58R, a straight-tapered rimmed cartridge designed for double rifles and *Drillings*—those three-barrel guns with two shotgun barrels and a rifle barrel. The 6.5 Mannlicher-Schoenauer (6.5x54) caliber was soon withdrawn and the D-Mantel bullet marketed only in the longer cartridge cases of greater powder capacity.

The D-Mantel bullet was made only in one weight and style, a hollow point having a length of .846 inch and a weight of 96 grains. The 6.5 mm. H-Jacket was heavier but also produced in hollow point only. It weighed 159 grains, with a length of 1.338 inches. A lighter bullet weighing 154 grains was available in 1.299-inch length.

The 96-grain D-Mantel bullet in the 6.5 mm. Mauser thus achieved a 3,220 feet per second velocity in a 23.6-inch barrel with a pressure of 47,800 foot-pounds. In the same cartridge the H-Jacket was loaded to a velocity of 2,420 feet per second at the same pressure.

Both of these RWS bullets perform well. The stiffened double jacket in small calibers is worthy of further study, but the H-Jacket has been proven in the hunting field in all calibers, including 6.5 mm., 7 mm., 8 mm., 9 mm., and 9.3 mm.

Are our hunting bullets any better?

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"A good story is told of one of our Illinois colonels who was heard praising the arm. Says he, 'in platoon firing with the Belgian musket I can tell what I cannot with any other arm, and that is, how many pieces have been fired. How can I tell that? Oh, I count the men on the ground; it never deceives me. It is fire and fall flat.' One of these Belgian muskets will kick like a mule, and burst with the greatest facility. Several soldiers in our Illinois regiments have been killed in this way. The bayonet, too, is a novelty—a soft iron affair, apparently designed to coil around the enemy as it is introduced, thus taking him prisoner."

—Frank Leslie's Illustrated Newspaper, Vol. XIII, No. 13, Feb. 22, 1862, 219.

CHOOSING A BINOCULAR

CONTINUING THE RIFLEMAN'S DEFINITIVE SERIES ON OPTICS FOR THE SPORTSMAN: PART TWO OF THE "INSIDE STORY" OF BINOCULARS . . . DESIGN AND CONDITION

By ROBERT J. and ELSA REICHERT

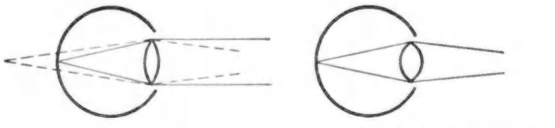
IN OUR DISCUSSION OF the optical specifications of a binocular (RIFLEMAN, April) we referred to one side only, as the two are of course optically the same. However, the correct relationship of the optical systems to each other is vitally important. This relationship depends upon the mechanical features of the binocular, and upon correct usage.

In selecting a binocular, you have a choice of two standard types of focusing mechanism. Their purpose is the same—clear vision for each eye. To try out either type, pick a printed sign *at least* 300 yards away; preferably with print too small to be read with the unaided eye. Then, by bending the binocular at the center hinge, adjust it for the distance between your eyes, until each eye is looking through the center of one ocular lens. Your next procedure depends upon the type of focusing mechanism.

Universal 6X30 binocular (top) is a typical glass with individual-focusing eyepieces. Bausch & Lomb 8X30 (lower) is center focusing, with calibration on right side only

Center-Focusing Type (CF): Before looking through the binocular, turn the center focusing wheel until the bridge bearing the ocular tubes is about as high as it will go. Note that the right eyecap is calibrated and movable. Set the right eyecap at the "O" position. Next, hold the binocular to your eyes, close your right eye, and turn the center focusing wheel until you see clearly with your left eye. Then close your left eye, and turn the right eyecap until you reach clear vision with that eye. Note the position of the calibrated right eyecap, so that you can reset it in that position if it becomes displaced.

Individual eyecap focusing type (IF): Note that both eyecaps are calibrated and movable. Turn both to a plus position. Then hold the binocular to your eyes, close one eye, and turn the eyecap in front of the open eye until you see clearly. Proceed in the same way with the other eye. Note the position of each eyecap, so that you can set it back if it becomes displaced, without having to look through the binocular. Being able to bring each eyecap back to its known point of adjustment without visually refocusing is one of the advantages of IF binoculars.



Lens of eye is comparatively flat when relaxed (left). Solid line shows distant image falling on retina, while close-up image falls behind retina. When muscles are contracted for close-up vision (right) lens is more curved, and image (solid line) falls on retina. Both diagrams are exaggerated for clarity

With each eye you can now clearly see objects 300 yards away, 3,000 yards—or, for that matter, the moon. You can also see objects much closer than 300 yards. How much closer you can see without changing the focusing adjustment of the binocular depends upon the accommodation capacity, or "near point," of your eye. This, in turn, depends to a great extent upon age, which largely controls the adaptability of the eyes.

The human eye has a lens which focuses exactly on the retina (in the normal eye) when distant objects are viewed. The shape of the lens is controlled by the ciliary muscles, which are relaxed when viewing distant objects. With the lens in its relaxed shape, objects very close-up (reading distance) do not focus on the retina, but behind it, giving unclear vision. In order to focus such close-up objects on the retina, the ciliary muscles of the eye contract, increasing the curvature of the lens. The closest point at which the unaided eye can see clearly by increasing the curvature of the lens is called its near point.

The ability to accommodate for close vision diminishes as one gets older. For the average young man the near point is 6 to 8 inches; for a 40 year old man, about 10 inches. This eye accommodation also operates when a binocular is used. Binocular near point equals eye near point multiplied by the square of the magnification of the binocular. Thus, if your eye near point is 8 inches, your binocular near points are as follows: With a 6 power, 24 feet (6X6X8 inches); with an 8 power, 43 feet (8X8X8 inches); with a 10 power, 67 feet (10X10X8 inches). At such close distances you will be able to see clearly without refocusing the binocular.

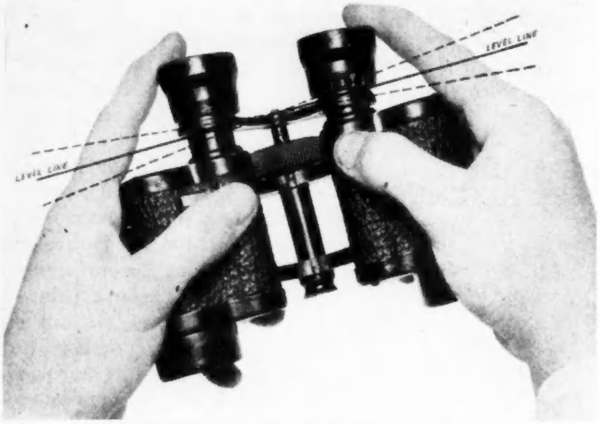
However, the ciliary muscles, which can give the lens of the eye a shape more curved than normal, cannot give it a shape flatter than normal. This explains why, when a man makes the bad mistake of focusing his binocular with relaxed ciliary muscles on an object only 20 to 50 feet away, distant objects appear blurred. It is not his binocular that is at fault, but his improper operation of it.

Thus a binocular, focused on a far-away object, affords equally clear vision for all reasonable distances, from the moon to within a relatively few feet. It pays to do it the right way. Let us now consider the relative merits of the two types of focusing mechanisms:

For abnormally close-up uses: IF binoculars require refocusing of both eyecaps; CF binoculars can be refocused by manipulating the center wheel only, and are therefore more convenient for use with objects closer than the binocular's near point. This is required only for highly specialized work, such as minute inspection of birds at very close range, or other types of nature study.

For normal use: Should the focusing become disturbed, either through use by another person, or thru inadvertance, the two types compare as follows: The CF must again be visually focused; the IF can be reset accurately by returning the eyecaps to their known positions without looking through the binocular.

Since the IF eyecap settings are the same for all reasonable distances, you should be sure they are absolutely correct—that the binocular "fits your eyes" as accurately as eyeglasses. To ensure such precision, the instructions for focusing an IF glass should be slightly modified. First, steady your elbows on a firm object, such as a window-sill. Then, instead of "closing one eye", hold a card in front of the objective. Closing one eye prevents the open eye from remaining fully relaxed. If you observe such care once, when determining your initial settings, the big optical advantage of individual focusing eyepieces will be fully achieved—permanent precision focusing.



To test a center-focusing binocular for loosely-fitting ocular tube and bridge assembly, press lightly on the eyecaps to detect "see-saw" motion

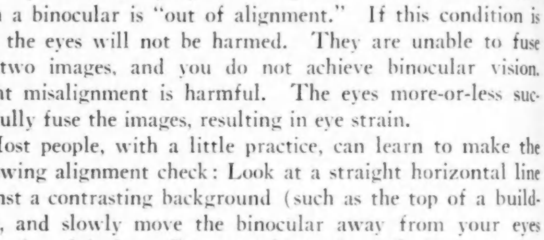
Mechanical rigidity: The CF design requires the finest workmanship for the bridge and ocular tube assembly, to ensure the enduring rigidity and smooth operation necessary for continued proper balance of the two optical systems. French binoculars are often notably lacking in this respect, and loss of rigidity soon takes place. Binoculars can be tested for rigidity as shown in the illustration on this page.

Imperviousness: The chief structural advantage of IF over CF concerns not the present but the future. This is a reference to their relative imperviousness to moisture and dust. In the CF type, the bridge assembly, in order to move up and down easily, must be a relatively loose "sliding fit." Moisture and dust can enter the binocular and settle on the optical elements. In the IF type, each ocular tube focuses in a heavily greased multi-thread sleeve, which is practically moisture and dustproof. This is one of the reasons why binoculars designed for extremely heavy duty, such as military service, are always the IF type.

Regardless of which mechanical type of binocular you select, you have a problem if you wear eyeglasses. You have doubtless discovered that using a binocular with eyeglasses appreciably reduces the field of view. The proper solution consists not in removing your eyeglasses, but in modifying the binocular. For the maximum field of view, the eye must be at, or closer than, the "eye point" of the binocular—approximately 11 mm. from the ocular lens. The eyecap normally ensures that the binocular will be held at this correct distance from the eye. When eyeglasses are interposed, however, the eye is considerably farther from the ocular lens. This difficulty can be overcome by making the eyecaps shallower, so that the eyeglasses almost (but not quite) touch the ocular lenses of the binocular. Such shallow eyecaps can, of course, be used without eyeglasses, but care must be taken that the eyelashes do not touch and smear the lenses of the binocular. An eyeglass wearer should also take the precaution of wearing a peaked cap or brimmed hat to shield his eyes from stray light entering around his eyeglasses. The eyes of the user without eyeglasses are fairly well shielded by the eyecaps of the binocular.

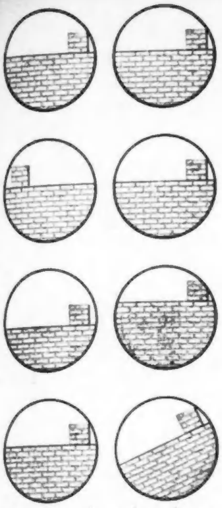
In the discussion on focusing, careful reference was made to "clear vision for each eye," avoiding reference to clear vision *for both eyes.* The latter raises another and important mechanical issue—correct alignment. It can—and unfortunately often does—happen that a binocular affords good vision when either optical system is looked through separately, but not when both are looked through at the same time. If the two optical axes are not parallel (if they do not point at precisely the same spot) the images seen will be different. Such a binocular is "out of alignment." If this condition is bad, the eyes will not be harmed. They are unable to fuse the two images, and you do not achieve binocular vision. Slight misalignment is harmful. The eyes more-or-less successfully fuse the images, resulting in eye strain.

Most people, with a little practice, can learn to make the following alignment check: Look at a straight horizontal line against a contrasting background (such as the top of a building), and slowly move the binocular away from your eyes about 6 or 8 inches. Be sure (this is the difficult part) that you do not move your eyes. Keep the left eye looking through the left side of the binocular, and the right eye through the right side. You now see independently with each eye, the binocular being too far from your eyes for them to force fusion of the two images. You can therefore compare the images separately. You see the building top in each circle of vision. If the top in one circle is a continuation of the top in the other, and the chimneys are similarly placed, the binocular is probably in alignment. If the building appears differently in one circle than in the other, the binocular is out of alignment. Of the types of misalignment illustrated, the vertical and angular displacements shown in the third and fourth pairs of circles are the most straining to the eyes. The horizontal displacement shown in the second pair of circles, if not too great, causes little strain, owing to the ability of the eyes to "toe in" or "toe out" to some extent.



Normal eyecap used with glasses (left) holds eye too far from the ocular lens for maximum field of view. Shallow cap (right) brings the user's eye to proper distance from the lens, and full field of view can be seen

We once heard three men violently disagreeing about the alignment of a binocular. One pronounced the alignment perfect, another the right side higher than the left, and the third that the left image was higher than the right. All three were correct! The explanation lay in their different interpupillary measurements. The first man's eyes were separated 65 mm., the second's, 58 mm., and the third's, 72 mm. The binocular was in alignment only when set for an interocular separation of 65 mm., because the optical axes were not paral-



Top pair of circles shows the view through properly-aligned binoculars. Others represent various kinds of misalignment, any of which can harm the user's eyes

lel to the mechanical axis—the hinge. This condition results from inaccurate methods of alignment.

To align binoculars correctly, it is necessary to use a properly-designed precision collimator. Such an instrument tests the parallelism of the optical axes, not merely for one position of the hinge, but for all. With its aid, the optical axes can be adjusted parallel to the mechanical axes, making them parallel for all interocular separations. With some collimators, however, it is possible to align for only one interocular separation. Imperfect alignment from this cause is regrettably common in both new and repaired binoculars. It is even a common practice to align binoculars "by eye." Aligners, working in this way, without the aid of a collimator, limit their adjustments to one interocular separation.

Alignment adjustments are made by changing the position of the optical parts. In one method, the prisms are shifted, and then fastened either by cement or set-screws. In another, the objective lenses, set in double-eccentric holding rings, are rotated, the rings then being locked in place.

A perfect aligning job may, however, be impossible due to defects in the binocular. If an adjustable ocular is eccentric, turning it will alter the direction of its optical axis, thereby changing the alignment. With this defect, correct alignment is possible for only one setting of the ocular. Alignment may also be unstable—correct one minute, incorrect the next—due to such defects as insecurely fastened lenses or prisms, play in the hinge adjustment, play in an adjustable ocular, or a too loosely-fitting ocular tube and bridge assembly.

The eyes react in various ways to incorrect alignment. A feeling of "pull" on the eyes indicates an effort by the eye muscles to force fusion of unlike images. A "flickering" of the image shows that the eyes are functioning alternately, unable to accomplish fusion. Another reaction, vision thru one eye only, occurs when one eye is weaker than the other and ceases to function under such difficulties; no eye strain occurs as only one eye is used, but the advantages of binocular vision are sacrificed.

Eyestrain also results when there is a difference in the magnification of the two optical systems. This condition is caused by an inequality in the focal lengths of the objective lenses. Binocular manufacturers, appreciating the need for very close tolerances, have always measured and paired objective lenses. Until recently, therefore, one seldom saw a binocular with unmatched objectives. Since the War, however, the building of binoculars from unmatched surplus parts makes this defect a fairly common occurrence. If not too bad, this inequality in the magnification of the optical systems can be equalized by suitable modification of one of the ocular assemblies. Such procedure is, of course, necessary for clear and restful vision.

Inequality in the magnification of the two optical systems of a binocular can easily be detected by anyone able to make the alignment check previously described. Look at the top of a building with the binocular 6 to 8 inches from the eyes, and move the binoculars so that the view is seen in the top of the field, the center, and the bottom.

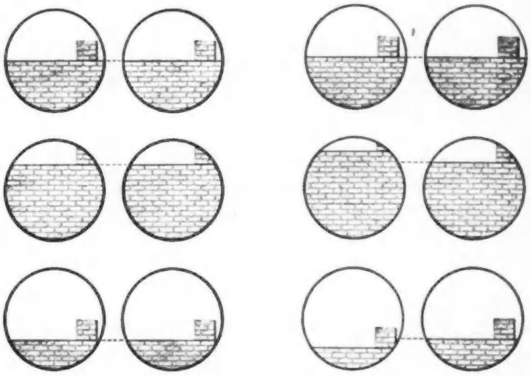
If the alignment is correct for all parts of the field, both optical systems have the same magnification. If the alignment is correct for the center of the field only, and the building top in the left circle appears higher at the top of the field, and lower at the bottom than in the right circle, then the left optical system has greater magnification than the right.

It is now evident that the correct alignment of a binocular depends upon the proper fit and adjustment of many mechanical parts. Without an accurate test, one can only say that a binocular is "probably in alignment." It can be pronounced definitely in alignment only after it has been checked for, and found free of, the various defects outlined. Of course, it must also be remembered that the "eye" check for alignment is approximate only, and not as accurate as a collimator check.

A binocular should afford clear and restful distance vision. If it fails to do so, it is either incorrectly focused for your eyes, or defective. When checking for defects, include all of the following:

Clarity of vision of each optical system;
Alignment for all inter-ocular separations;
Alignment for all positions of adjustable oculars;
Equality of magnification of the optical systems (if binocular was assembled from surplus parts);
Insecurely fastened lenses or prisms;
In an IF binocular, play in the adjustable oculars;
If a CF binocular, play in the adjustable ocular, and in the ocular tube and bridge assembly;
Play in the hinge adjustment.

When selecting a binocular, first make sure it is the optical and mechanical type best suited to your needs. Then, unless certain of its high quality and good condition, check both optical and mechanical performance.



At left, views seen when both optical systems afford equal magnification. Alignment is correct at top, bottom and center of field. Circles at right represent binocular with greater magnification in left than in right system. Note misalignment when image is at top or bottom of field of view

Your care will be rewarded by truly satisfactory long-distance vision. When you spot a chuck in a field, a deer in the woods, or a bird on the wing, your binocular will reveal the desired details instantly and clearly. And—equally important to you—no matter how long you look through it, your eyes will feel rested and relaxed.

◆ ◆ ◆

Next month, in the concluding article of their series, the Reicherts will discuss specific makes and models, with all of the facts you will need in selecting a binocular, including relative efficiency and approximate price.

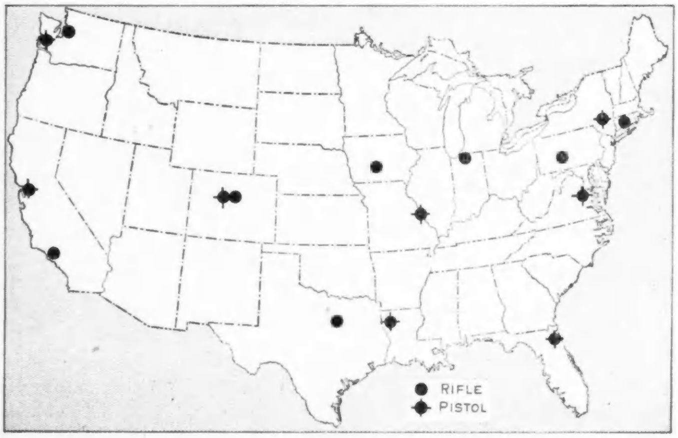
1948 Regional TOURNAMENTS

The NRA is exercising direct supervision over the 1948 Regionals, setting them up as tournaments which are not fired with other matches for the first time in registered match history. It is supplying the medals and awards and sending a staff man or Field Representative to the scene of the match several weeks in advance of the shooting date for a final check of the organization and planning of the tournament. Besides, as usual the best of competitive shooters are sure to turn out to compete for regional honors, and no other matches except Olympic tryouts are being fired with them. They have become the meeting ground of the hottest competition a shooter will meet anywhere outside of Camp Perry.

Advance planning for the regionals is well along and the dates and locations of all of them have been decided upon. These are:

SMALL BORE

Northeastern Small Bore, Middlefield, Conn.—July 9, 10 & 11
Eastern Small Bore, Altoona, Penna.—July 4 & 5



Geographic locations of 1948 rifle and pistol Regional Tournaments

Midwestern Small Bore, South Bend, Ind.—June 26 & 27
Middle States Small Bore, Des Moines, Iowa—June 26 & 27
Rocky Mountain Small Bore, Denver, Colo.—July 3 & 4
Southwestern Small Bore, Dallas, Texas—June 26 & 27
Pacific Coast Small Bore, Santa Barbara, Calif.—June 11, 12 & 13
Pacific Northwest Small Bore, Seattle, Wash.—June 12 & 13

PISTOL

Northeastern Pistol, Poughkeepsie, N. Y.—Sept. 4 & 5
Eastern Pistol, Quantico, Va.—July 3, 4 & 5
Southeastern Pistol, Jacksonville, Fla—June 24, 25, 26 & 27
Middle States Pistol, St. Louis, Mo.—July 16, 17 & 18
Southwestern Pistol, Shreveport, La.—July 2, 3 & 4
Rocky Mountain Pistol, Denver, Colo.—June 25, 26 & 27
Pacific Coast Pistol, San Francisco, Calif.—Oct. 15, 16 & 17
Pacific Northwest Pistol, South Bend, Wash.— July 10 & 11

Here are the conditions of the Regional matches, with information regarding fees and prize awards.

REGIONAL TOURNAMENT REGULATIONS

Advanced and Limited Entries: Entries in all individual events will close not less than one week prior to the date of the Regional Tournament. Entries will be limited to not more than 2 relays in each individual small bore rifle event or to not more than 3 relays in each individual pistol event.

Programs: Programs and match information for each Regional can be obtained by writing the individual whose name and address is given in the Coming Events (page 47).

Entry Fee: The entry fee charged will be $1.00 for each competitor in individual events and $4.00 per team in team events. The entire entry fee will be retained by the tournament sponsor.

Registration Fee: Each Regional Tournament competitor will be charged a Registration Fee of $1.00. Fifty percent of the total Registration Fee will be paid by the sponsor to the NRA.

Classification of Competitors: Competitors in all matches, individual and team, will be classified according to the National Classification System.

Rules: NRA Shooting Rules must govern all matches.

Prizes: Prizes for both place and class winners in all events will be furnished by the NRA at no cost to the tournament sponsor. A listing of the awards to be made at each Regional is as follows:

SMALL-BORE RIFLE

1 First place award in grand aggregate
1 Second place award in grand aggregate
1 Third place award in grand aggregate
1 Ladies first place award in grand aggregate
1 Junior first place award in grand aggregate
2 First place awards in other aggregates
2 Second place awards in other aggregates
8 First place awards in individual matches
8 Second place awards in individual matches
33 Class awards for first place in Expert, Sharpshooter, and Marksman Classes
33 Class awards for second place in Expert, Sharpshooter, and Marksman Classes
8 First place awards in team matches
8 Second place awards in team matches.
24 Class awards for first place in Expert, Sharpshooter, and Marksman Classes in team matches

PISTOL

1 First place award in grand aggregate
1 Second place award in grand aggregate
1 Third place award in grand aggregate
1 Ladies first place award in grand aggregate
4 First place awards in other aggregates
4 Second place awards in other aggregates
12 First place awards in individual matches
12 Second place awards in individual matches
51 Class awards for first place in Expert, Sharpshooter, and Marksman Class
51 Class awards for second place in Expert, Sharpshooter, and Marksman Class
12 First place awards in team matches
12 Second place awards in team matches

Regional boundaries: The boundaries which in years past restricted the Regional in which a shooter could compete have been abolished and he can now fire in the regional of his choice. However, a shooter cannot compete in more than one pistol and one rifle regional in each calendar year.

Who may compete: Competition at all regional tournaments will be restricted to members of the National Rifle Association.

Classification: Any competitor not holding an official or temporary national classification card will be required to compete in the Expert Class for the entire tournament.

Sincerely, *Alvin Linde*

CONCLUSION

Alvin Linden was a prodigious letter writer, as anyone who ever corresponded with him soon learned. He would write a customer on the slightest provocation, to ask questions about a job, to report his progress on a stock, or for no good reason other than he wanted to rant about dancing, music, photography, radio, or stockmaking.

The letters published here are the concluding portion of a selection made by RIFLEMAN *editors from Linden's correspondence with Phil Fine, of Baltimore, Maryland, for whom he made several stocks. They contain pertinent comments on various aspects of stockmaking and casual remarks on anything which struck his fancy. Of necessity they have been carefully blue-penciled to delete the four-letter Anglo-Saxon words which Linden used so profusely.*

June 3, 1940

LATELY I HAVE BEEN doing the hard labor and furnishing the 'skill of super-accurate bedding, checking, et cetera' for fifty flat. The customers furnish blank, buttplate, grip cap, tip material (if they want a tip), and swivel fastenings themselves.

I have plenty of plain American walnut, and if you want a stock of that I will furnish such a blank gratis. I have one nicely-streaked French blank in regular sporter layout, and only 2¼ inches thick. It is a good value at fifteen bucks, but it won't make a stock with the long grip—unless I graft a piece on the bottom of grip.

Correct layout and dry wood are absolutely essential for a tightly-fitted stock that really grips the barrel. My old crabby notion about having the cross grain in the forearm is gradually taking hold.

The blank racket is so rank that it needs a bit of going over. For instance, last summer I bought a *dry* French blank. The blank was so soggy that the water and sap oozed out of it just like it does in what we call water elm, and I sent a section of the magazine mortise material to Arthur Koehler of the Federal Forest Products Laboratory in Madison, Wisconsin. He sent back a moisture content report, with his own John D. Henry on the bottom, which read: 43.4 percent moisture. In other words, I had bought me a piece of wood for fifteen bucks that contained 43.4 percent of smelly water. Dry wood (air seasoned and then kiln-dried) should not contain more than 7 percent of moisture.

There are many stockers who claim that kiln-drying is not needed. Well, it may not be in their stocks because they will fit them loose enough to avoid any danger of splitting from shrinkages, and they usually let the wood project over the edges of buttplates and other parts that should be made—and should remain—flush.

Such jobs may do in some parts of the country but not for me. One of my stocks may go to the Alaska coast where it is soggy all the time. No harm done. The wood swells and the metal parts do not get cramped if the owner has sense enough to keep guard screws at proper tension. (They do, most of them.)

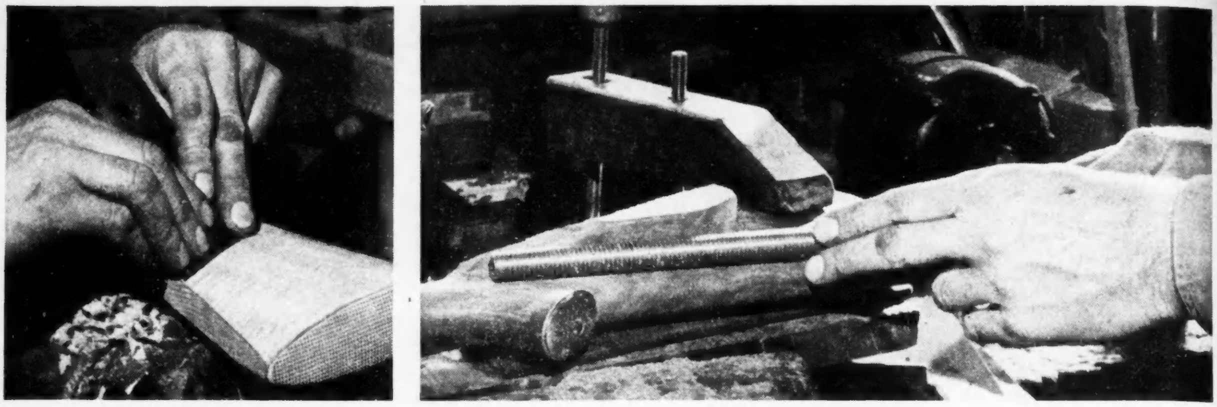
Between you and me and the gatepost, I have me 'doots' about any damned rifle putting them all in the same group with different weights of bullets. It may be possible—but I must see it first. In regard to the deep and mysterious art of bedding, all I can do is to fit it in tighter than the proverbial banker's heart—and do it without causing bunions on the barrel from uneven contacts. It calls for at least 100 cut-and-try fits, and I do get smeared up plenty with bluing. Jim Howe sneers at that and sez that coal-oil smoke is the thing to use. The taste some have. Take me, now. I can get all the headache I want from the fitting alone, without inhaling stinking kerosene smoke all day long. The old school of smoke fitters did so because it felt so good when the headache stopped.

June 10, 1940

Do you use the magazine while chuck hunting? Rather, are you planning on using this heavy-barreled gun for game hunting where you need magazine loading? If not, why not leave off the magazine? And trim the bottom of the stock to neater lines than is possible with the wide Enfield trigger guard which straddles the wide magazine box and makes it impossible to avoid the slab-sided effect always seen on the Enfield stocks.

I said always, which is not true. I stocked one Enfield for Gordon MacQuarrie. It had a Springfield 1903 magazine,

Alvin Linden would stock any rifle a customer sent in, if he had time. Here he is shown finishing the job on an old single-shot (left), looking over the work on a .22 "plinker" (center), and comparing a large stock which he made for a German antitank weapon with one of normal size



Linden's fame as a stockmaker came from his careful workmanship and attention to detail. Here are close-ups of Linden shaping the butt of a stock with the cutting blade from a chisel which he holds between his fingers and finishing the inside curve of a cheekpiece with a broach

which made it possible to reduce the gun's alderman belly down to 'slim and dacint' lines. The bolt-stop spring was shortened so the action looked more like the original Mauser from which it was copied. The frog-leg kink in the bolt handle was taken out and the shank made straight.

Being a native of Wisconsin, and Superior in particular, Gordon wanted Wisconsin wood after discovering that what he and Frank Scherschel took to be the 'finest Circassian' they had ever seen turned out to be Wisconsin curly birch which I had scorched with a torch enough to bring out the contrast and to darken the light wood, which is very good for the purpose even though it does not carry the Emily Post approval.

In a weak moment and somewhat influenced by a big snort out of a bottle of snake-shock antidote, which he carried along in case he might see a harmless puff adder or a pine snake, I agreed to make a stock out of some ornery and curly birch which had been seasoned and then kiln-dried to within 6 percent of moisture.

Between 'icks' and with sentimental tears in his eyes, Mac explained that he was a man of plain tastes, who simply abhorred anything that looked too new or flashy, and told me to bear that in mind when making the stock.

Now, like when a fellow goes out of his way to tell you what an honest man he is, it is a dead cinch that a fellow who pretends to hate nice stuff is really four-flushing; so I made it contrast as much as possible by leaving the checked areas white. (I simply checked until I had removed all of the scorched wood and gone below the surface a bit.) The white and clean-looking checking will not stay that way long, but long enough to have a snappy set of pix made up. Afterwards, one can stain them dark or do as I suggested Mac do. First, find out what base colors were used in the MacQuarrie plaid, then steal some colored ink of the proper shade, and daub up the areas with that. I deliberately laid out the forearm into a sort of a formal garden design. Not at all hard to look at. Mac grinned like a skunk eating bumble bees off of clover blossoms when he saw the job.

Plain Scot? Hell! Any man who will wear kilts of rainbow hues, with nary a thing to cover his nakedness in case he should stand on his head with them on, can't tell me that he is a plain and conservative man.

The rifle weighs eight pounds, two ounces, without sling, but feels lighter. It has a brownish-red mottled color that resembles the real tortoise shell that I used to see years ago. There have been more men who have fallen in love with this rifle than any other that I have seen, believe it or not. And the ladies? Wowie. They rub the fine-grained velvety finish and pout their lips as if they were blowing out birthday candles, and simply adore it.

June 28, 1940

Gordon MacQuarrie (who writes for *Field & Stream*, *Outdoor Life*, and the *Milwaukee Journal*) was here yesterday. He arrived just as I was buffing off the big German Mauser 1918 tank rifle, for which I had made a full-length stock, 50 percent larger than a standard stock—but even then a bit too small for the metal parts, which are twice as large as a Springfield or Mauser. It weighs about 44-45 pounds, and is six feet, one inch in length. An ordinary man cannot hold it at arm's length, or offhand. This has been my own privately financed WPA project. But you can bet I did not lean on the chisels any more than was necessary to make them cut as fast as possible. Beats Hell how even a gun-butcher can go on a postman's holiday by making a stock out of a *four*-inch thick plank—and rip it by hand. Exercise and then some. Damned if it was not more interesting than paying jobs, which proves that a gun nut is a super nut.

July 21, 1940

The forearm was so knurly and burly that I had to call on Mac and Frank Scherschel for a new set of cuss words, having worn my Swede down as thin as a chaw of snus that has to do a 24-hour shift without replacement. Mac responded nobly with a set of Scotch purr-words that sounded like an old spinning wheel on its last legs. Frank's Hungarian words were choice and to the point. They even made an old gypsy hag almost blush, so they must have been the real McCoy.

Oddly enough, though it was simply Hell to whittle out, it checked wonderfully well, being harder than walnut.

Checking cheekpieces is not done in the higher brackets. But it is an idea worth trying. I could run closely spaced lines in line with the recoil, the theory being that your cheek could slide along the checking without much resistance, but not across the lines. Doubtless there are hundreds of cranks who would call it a nut stunt. But one gets used to that after awhile, particularly when they begin to copy it—and even claim they originated the idea and put it into practice.

July 29, 1940

Hell, no! I did not take those fine Enfield pictures. They were taken by Arthur M. Vinje, *Wisconsin State Journal* staff picture man. He is one of mebbe a dozen who really can take gun pictures.

Vinje takes gun pictures with a very big camera. You can't blow them up from a smaller negative and get the results he gets from big full-sized negatives. It is practically microphotography, according to Scherschel, who certainly knows.

Whenever you get collared by a camera hound (I suppose New Yawk has its full share of those who are sobbing and sniffing on the trail of new things to conquer with their fine cameras and outfits), just stick a gun in front of him and tell him to stick to it until he gets a picture as clear as Vinje's. I will guarantee that you will be rid of him for good, though he might swipe the picture and claim he took it. I can break up a camera bull session in two minutes by using that technique on the boys. Those who know how difficult it is, toss up the sponge at once; those who are not sure, get so busy trying to find out that you won't see them again.

It is done by artificial light, floodlights which can be arranged to throw the light to best advantage, and it is some job to avoid highlights that would blot out the lines in spots and probably leave out part of the stock.

If you light up the stock directly from the front, only part of it will show clearly. The checking will look flat and almost invisible. But, shoot the light from the floor and throw the checking into 'relief,' and you can see every diamond as plainly as the pyramids in Egypt. Not only that, but also any slip or hollow on the stock.

I razzed Vinje because he did not show up the checking enough, and the next time he shot in so strong relief that I found flaws that a magnifying glass did not show up on the original stock itself.

What in Hell can you do with such cusses? Vinje is half-Norwegian and half-Mayflower stock, and related to Rockne on the father's side, so you can realize how bullheaded he can be. He has a fine collection of negatives of my work, all 8 x 10 inches, but they are expensive prints to make up before one can see how good the negatives are, and I can never keep any prints around here very long before some collector bums them off of me.

December 11, 1940

Thank goodness that the deer season is past now, so I can catch up on the stock work and drawing and writing I am doing—and also check and finish your stock, as well as other jobs which dribble in from all over. Got three old handguns, flintlocks and percussions to go over for an American mining engineer in old Mexico.

The stock is finished except the checking. There was some shrinkage in it, either because the wood was not perfectly dry when I got it or because of the very soggy and damp weather we had this summer and fall. So, I have let it hang and dry, rather than to have it shrink when you get it.

Your rifle is single shot now and has a Krag trigger guard in place of the regular guard and magazine. Being an unusual type of rifle, I will also trace it off exactly and use the drawing in some stuff on Enfields which will be published before my book comes out.

February 27, 1941

The rifle will be ready to ship soon as I get your instructions about where to send it. Just airmail the letter if in a rush—gets here as promptly as telegrams are delivered.

Got a few bluing details to do and plan on sending it via Madison, for Vinje photos, if you don't mind. Won't be held there for more than a day extra, and I'd like to have the pictures because I will need them for my gunstocking booklets, and the book which will come later.

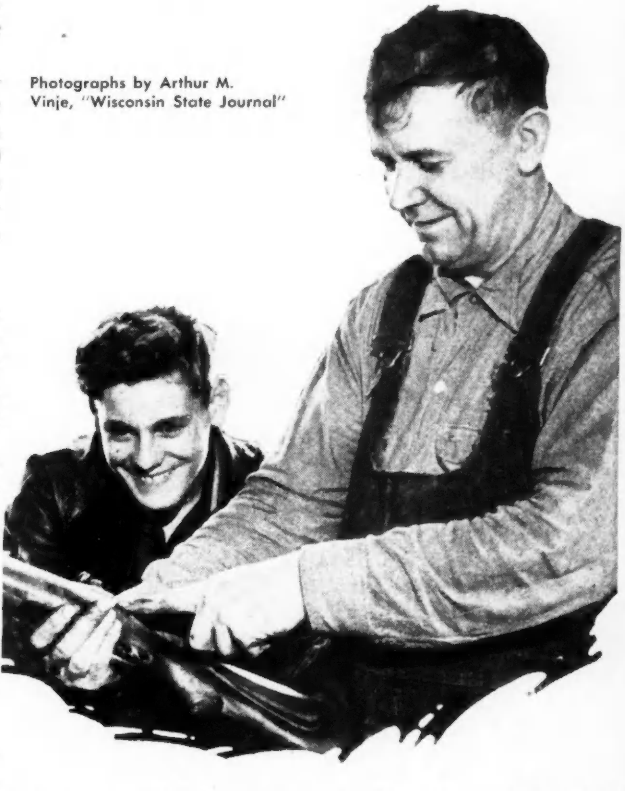
Besides gun butchering, which appears to be looking up a bit, I also draw and scribble for Samworth. Just finished the first booklet, *Inletting and Bedding of the 1903 Springfield,* and drew over thirty sketches of the details, besides a large full-scale sheet from which the lads can measure and trace to their hearts' delight. Will send you a complimentary copy as soon as they come out.

Typed seventy pages just for the inletting, and I covered it like the dew covers Dixie—I hope, I hope. Anyway, there will be a few different angles presented, and some of these might not appeal to the Messiahs, but I do believe they will be appreciated by the lads who really want to try their hands at the game and who have none too many tools to work with.

Have drawn your stock full scale on a sheet to be used in another booklet, and want photos also, if possible. It isn't every day that we see a single-shot Enfield, and it's the different stuff that they go for most. It will have a fine companion Enfield in Gordon MacQuarrie's. (I got some dandy curly maple blanks, all seasoned and kiln-dried, from a local concern that makes wooden heels for ladies' shoes. They can't use the curly stuff for that purpose. Tough break—like Hell. Not if one knows what they charge for junk maple.)

January 10, 1944

I don't know what a rifle can do in the line of accuracy, and I don't know of any secret way of bedding them, unless it be the everlasting playing around and scraping and wasting time that no one but a sap Swede would ever do. And that cannot be the secret either because some barrels will shoot despite bad bedding and scatter like buckshot when really bedded nicely.



Photographs by Arthur M. Vinje, "Wisconsin State Journal"

The whole thing is a gyp racket, but I am too dumb to make any dough out of it. It is there somewhere, but it seems to be too close to a jailhouse to suit me.

Sincerely,

Alvin Linden ◆ ◆ ◆

The Old Coach

SIGHTS FOR YOUR RIFLE

RIFLE SIGHT manufacturers, generally speaking, make sights of similar type but of different design and construction. Thus, when selecting an iron or telescope sight, first decide upon the type and then upon the make.

For target use, iron front sights come in two main types, blade and aperture. Experience teaches that the blade should be wide, about the width of the sighting bullseye as it appears at its correct range distance. Such a blade held at six o'clock permits easy lateral alignment, while a narrow blade permits considerable deviation because of its lack of width. The blade should be dead black in color.

Though the wide blade is about as accurate as an aperture, the main advantage of the aperture is that it lessens eyestrain and makes good shooting easier, especially for poor and old eyes. As to size, select a large aperture, one that shows a wide rim of white around the black bull—as much as the radius of the bull is none too much. When on the target range, bear in mind that a larger aperture should be used for the 50- and 100-meter targets than for the regular 50- or 100-yard cards.

For the average deer hunter with halfway good eyes, there are no better sights made than a good set of iron sights, aperture rear and bead front, for use at actual ranges at which game is shot, especially in timber. The hunting front sight, bead or blade, must be sturdy and built to take the knocks. By the way, a 1/16 inch bead equals about six inches at 100 yards, which makes one quite useful in judging distance in the game field. A white ivory bead is an old favorite for timber shooting where a 3/32 inch bead is really better than the 1/16 inch. Red ivory has much merit in bright light and snow, while the gold bead is good and will take the knocks far better than the usual plain iron or white metal blade or bead. Be sure the bead is well protected.

The rear aperture should be located just as far to the rear as eye safety will permit. At the time of the introduction of original Lyman system of rear aperture sighting, the Lyman tang sight was used on all single-shot and lever-action rifles, even those handling the .45-70, .45-90, and other heavy-recoil cartridges. Today, with the preponderance of bolt-action rifles, these rear aperture sights are mostly of the receiver type. Even so, for small bore and such cartridges as the .22 Hornet, where recoil is of no moment, an extension receiver or tang sight should be used to get full benefit of the aperture. On the big bore rifles, however, a regular receiver or bolt-head sight is the only thing.

As with the front aperture for target, so with the rear: Be sure to pass up the smallest hole you can see through. Select a hole that admits plenty of light because, while the eye will center itself in an aperture, there must be no spider-web shadows, especially for gallery shooting. Very fine shooting is done today with apertures as large as ⅛ inch in diameter. Try the different size until you find one that fits the light conditions.

Rear target sights and most hunting sights are made with minute-of-angle adjustments, some with clicks and some without, for both elevation and windage. (What is said here also applies to adjustment of telescope sights.) The scale on the sight is usually for ½ minute with an added ¼ minute click in between. Sights differ so be sure to read the directions for the sight you get. As you may know, a minute-of-angle is to all intents and purposes equal to one inch for each 100-yard range. This means that the two diverging lines, the line of bore and the line of sight, will be one inch apart at 100 yards, two at 200 yards, and three at 300 yards. Thus, if your sight adjusts in half minutes, it takes two points or divisions on the sight to move the bullet one inch at 100 yards and proportionately more for longer ranges.

After the sight is in place, the rifle should be zeroed so that it will only be necessary to add the necessary minutes-of-angle for any known distance as given by the tables. For rough field use, the sight should have locking adjustment screws, 'hunter knobs' as one manufacturer calls them. Set the sight for the load you will use and then *lock it tight.*

There is a general idea at large that a scope shooter has a big advantage over a fellow with iron sights, which isn't altogether true. Fact is, it takes a lot more training and better holding to shoot a high score with a scope than with good iron sights. Almost without exception, tyros pick a scope with too much power of magnification. For offhand don't go over six power. For prone, small bore mainly, make twelve the limit with eight much better for the average beginner.

Any scope should be mounted in the best click-type mount you can afford. The old nonclick Winchester target mount is also very good. Bear in mind that first-class target scopes are delicate optical instruments and leaving one around for some boob to step on won't help the optics any. Medium-fine crosshairs are most generally used in them, but some shooters are using the center dot. Eye relief for small-bore shooting is of no consequence, but for .30 caliber keep it in mind.

Scope sights are becoming more and more popular for hunting. Today the market offers almost everything from a really good six power varmint scope at an unbelievably low price to a fine glass with a 60-foot field. For most pest shooting your regular target scope will answer, but for real big-game hunting don't go over four power. The regular two and one-half to three power is better yet. In these scopes the field of view is large, light-gathering is good, and they have a long eye relief. Here your selection will depend upon the price, but don't forget that it still isn't a social disgrace to sight at deer with a prewar 330 or Alaskan. Here again the medium-heavy crosshairs with a post are most popular, and the center dot is in the minority. There are two types of mounts to choose from, the fixed and the quick detachable. With the latter you can own one good scope with accurate and dependable adjustments and shift it from one rifle to another. The stationary type are set and very satisfactory.

The main advantage of a scope is that it magnifies the spot you wish to hit, and is wonderful for crow and chuck shooting. With one you can distinguish between branches or antlers, a buck or a man. However, the picture seen with the scope is quite different than with the naked eye. Trees, limbs, brushes, and game get mixed up until you learn the score. Therefore, as I have told you before, unless you get your scope far in advance of your hunt and honestly practice with it on moving objects, learning to use it, for the love of Mike stay with a good set of iron sights. ◆ ◆ ◆

THE SPOTTING SCOPE -- May 1948

More than 800 sportsmen—largest gathering at a New Jersey legislative hearing this year—spiked, with NRA aid, Attorney General Van Riper's attempt to impose severe firearms restrictions on the State. . . . Another prime example of what organized, cooperative effort of local residents can do to prevent objectionable legislation. . . . Meanwhile, Rhode Island Bill H-652, which would have required licensing of all ranges and about which NRA warned its State membership, also has been killed. . . . Kenneth Cruse, former University of Minnesota rifle instructor, recalls that one of the stars of the championships Gopher rifle teams of1924-25-26 is the present Republican presidential-aspirant Harold Stassen, who still owns a Big Nine four-position record of 398 x 400.

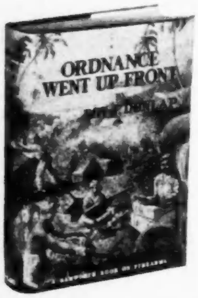
The incomparable True magazine team of Gun Expert Lucian Cary and Color Photographer Dave Robbins has devoted its efforts in the May issue to the story of the NRA. . . . Try to read "Inside the Gun Crank's Sacred Temple." . . . Newsweek Magazine, which ordinarily would devote little space to reporting results of the National Intercollegiate Rifle Championships, gave the 1948 matches more than a full column to tell about the special NRA committee meeting called to decide the winner (see story on page 45). . . . All of which proves that a little rhubarb once in a while doesn't hurt, publicity-wise.

Survey of press clipping returns during the recent New Jersey registration fracas indicates that newspaper editorial writers, woefully uninformed on the sportsman's point of view, are predominantly in favor of restrictive gun legislation. . . . This would indicate more spade work is necessary by sportsmen on the editorial side of local papers. . . . It also should make sportsmen more appreciative of its press friends—like the Whitehall (N.Y.) Times, the Union City (N.J.) Hudson Dispatch, the Plainfield (N.J.) Courier-News, the Passaic (N.J.) Herald-News, and the Caldwell (N.J.) Progress-News. . . . Add "Friends of the Shooters": New Jersey State Senators Elmer H. Wene, David Young, III, C. Wesley Armstrong, Jr., Harold W. Hannold, W. Steelman Mathis, and Assemblymen Anderson Fowler, Thomas J. Hillery, Elden Mills, Edmund E. Field, Jr., and Frank W. Shevshin.

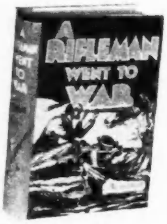
Much improvement in local club relations with sports press and radio sportscasters is now apparent, with reports coming in of special columns and broadcasting features. . . . Waunelia Heise, secretary of the Michigan City (Indiana) Rifle Club, has worked out an arrangement with local station WIMS to air pre-match build-up and the results of all club events. . . . In Newport News, Va., shooting enthusiast John Courtney has the cooperation of Daily Press Sports Editor Charles Karmosky in the regular presentation of rifle and pistol news in breezy sports page style—not the cold listing of results. . . . It's still a club's top source of advertising. . . . The two Dutch shooters who appealed to Spotting Scopers last year to exchange correspondence and shooting talk, reveal that they have gratefully received numerous letters from the U. S. as a result. . . . They report that the principal postwar activity of the Dutch Shooting Association has been with air rifles, except when they pick up a few discarded military rounds from former battlefields in Holland.

Congressional committee hearings on the Army's 1949 Appropriation Bill, which may include the hoped-for allotment for the National Matches this year, were not held in early April as expected. . . . We're still hoping that by next issue something definite can be said. . . . Attention, women shooters: The NRA is still looking for suitable designs for women's shooting clothing—attractive, but still practical. . . . Any gal with any idea of what a trim and useful shooting jacket and slacks (or skirt) outfit should look like might get in touch with Miss Lois Agee at NRA headquarters. . . . Electrical bedding, the innovation introduced at Camp Perry last summer by the NRA's Pete Brown and designed to increase rifle accuracy by eliminating bedding faults, will soon be on the market. . . . Experiments are now going on beyond target rifle accuracy alone. . . . Electric bedding is being tried on lightweight center-fire hunting rifles to see if they can be made to perform comparably to the heavyweights.

Ray Stann



SHOTS FIRED IN ANGER
by J. B. George



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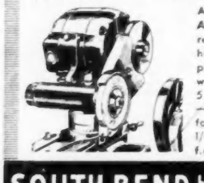

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BUSTIBLE BULLSEYES

Reports have been received from the tenth annual Roy Best Rifle Trophy Matches, held in Canon City, Colorado, and from a match in Maplewood, New Jersey, conducted by the Association of New Jersey Rifle and Pistol Clubs, about the first matches conducted with the new "bustible bullseyes." In both tournaments, the "bustible" target match was conducted as a "miss and out" match. In the New Jersey tournament the targets were hung at 50 feet; in Colorado they experimented with 75 feet. At the New Jersey match, 53 competitors entered, ten competitors successfully broke all of the first ten bullseyes without a miss. At the Colorado shoot where the targets were hung at 75 feet, 56 competitors entered the match, 28 failed to connect with the first breakable bullseye fired at, 7 were left after the second shot. The winner of the match was successful in breaking five targets in succession.

NATIONAL INTERCOLLEGIATES

The University of Maryland, 1947 National Intercollegiate Rifle Champions, lost both the 1948 team and individual titles. Navy dethroned the Terrapin team champions 1405 to 1404, and Tom Moncure, of George Washington University, Washington, D. C., creedmoored Maryland's pride and joy, Arthur Cook, although both posted 288's.

The original score of the Navy-Maryland team match fired at Annapolis was announced as 1406 to 1405. However, Maryland challenged one of the Navy points which caused all targets of the two teams to be rescored by a Board at NRA National Headquarters. The challenged point was taken away from Navy, but during the rescoring, Maryland also lost a point. If, in the rescoring Maryland had kept its original score, Maryland would have retained the Intercollegiate crown due to a higher standing score turned in by the five members of the team. In that position, Maryland beat out the Navy 439 to 436.

West Point finished third in the Cham-

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pionships fired on twelve college campuses throughout the United States on March 20, with 1399. The University of California at Los Angeles was fourth with 1394 while the University of Maryland #2 team rounded out the first five at 1383.

In the individual competition, L. E. Bolduc, United States Military Academy, and Arne J. Soreng, United States Coast Guard Academy, finished third and fourth, respectively, with 287. George Martin, Ohio State, was fifth at 286. The first four finishers broke Maryland's Walter Bowling's old individual National intercollegiate record of 286 set in 1947. Bowling did not defend this year.

The twelve team sectional winners were United States Coast Guard Academy firing at Amherst, Mass., West Point at West Point, N. Y., Navy at Annapolis, Md., University of Minnesota at Madison, Wis., University of Alabama at Baton Rouge, La., Ohio State at Columbus, Ohio, Oklahoma A&M at Stillwater, Okla., University of Iowa at Lincoln, Neb., University of Wyoming at Fort Collins, Colo., Washington State at Farragut, Idaho, University of California at Berkeley, Cal., and UCLA at Los Angeles, Cal.

NATIONAL JUNIOR SHOOT

The Napa High School Cadets Rifle Club, Napa, Calif., took the Alamo Trophy; and Donald Downen, Will Rogers High School, Tulsa, Okla., the Morgan Trophy to win the National Junior Team and Individual Rifle Titles in the championships fired throughout the United States and Hawaii on Saturday, March 6. The two winners defeated the largest fields ever to compete in the National Junior Shoulder-to-Shoulder Championships. Over 350 teams and 2,000 individuals shot in the matches which were conducted in 38 localities.

The Alamo winners, firing in the military school division, took the open title with a team score of 748 followed by the Upper Darby Senior High School squad, of Upper Darby, Pa., shooting in the non-military division, with a 741. Non-military schools grabbed the other three top positions in the open competition for the trophy; South High School Jr. ROTC Rifle Club, Denver, Colorado, finshing third with 740, George Washington High School, Alexandria, Va., fourth at 738, and Hempstead Junior Rifle Club, Hempstead, L. I., fifth with 732. Austin High School, El Paso, Texas, 1947 winner could do not better than ninth in the non-military school division with 719.

Monessen Jr. Sportsmen's Association, Monessen, Pa., won the non-scholastic team crown with 722, while the Upper Darby Senior High School Girls' Team took the feminine title with 679.

In taking the individual title and Morgan Trophy, Donald Downen fired a 193. He was followed by Darwin Le Verne Hook, Hayward Jr. High, Hayward, Calif.; Leroy Atchinson, Cleveland High School, St. Louis, Mo., and Howard Waters, Silver Spring, Md. All three had 191 with Hook outranking the other two and Waters pulling up the tail-end.

Marlene Bellinger, Glendals Post Jr. Rifle Club, Seattle, Wash.; Theresa LaLonde, Detroit, Mich.; Carol Bermont, Oakmont, Pa.; and Betty Patterson, Nevada, Mo., finished with 182's in the race for the girl's title. The off-hand scores put Bellinger first, LaLonde second, Patterson third, and Bermont fourth.

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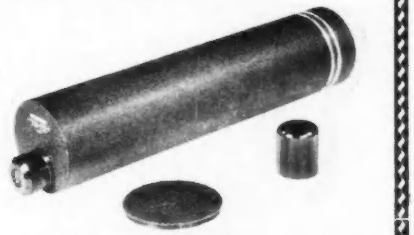

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SUMMER LEAGUES

The Competitions Section of the National Rifle Association will soon be sending out entry blanks for the 1948 Summer League Program. Entries will close on June 30. Any group of NRA affiliated clubs, or any single affiliated club may form a league. The minimum requirement for any league is three teams and any club may enter as many teams as it desires.

League scores may be used for national classification.

Over 100 leagues took part in the Gallery League Championships just concluded and it is hoped that all of these will carry this league shooting out of doors this summer and enter the Summer League Championship series. Trophies and awards will be given by the N.R.A. to the winning team and team members of each league and to the state and national championship teams.

Clubs wishing the simple instructions for organizing a successful league should write the Competitions Section of the N.R.A.

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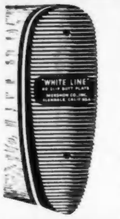

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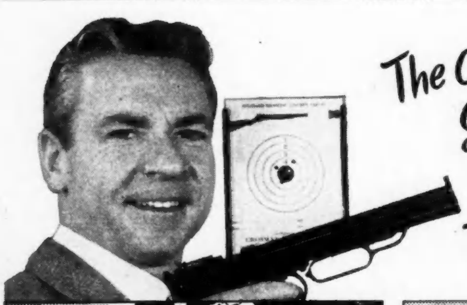

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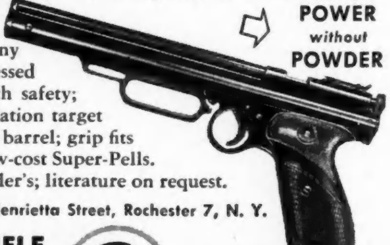

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. . . America's long-time favorite for target shooting indoors or out, small game and pest control . . . is a beautifully balanced man's-size gun featuring adjustable "power without powder," rifled-barrel accuracy, fine gunsmithing throughout, at low cost. .177 or .22 single-shot, .22 magazine types. At your dealer's . . . literature on request.

Crosman Bullseye PISTOL

Only Crosman makes *Super-Pells,* the better ammunition for all air-powered arms; .177 and .22 cal.

OVER 300,000

Members and friends of the Association will be glad to know that the NRA has just passed another important milestone in its long and successful history. Individual memberships have soared above the 300,000 mark. Print order for the RIFLEMAN this month was 316,000 copies!

Naturally, a great deal of this rapid growth is due to the cooperation of members who are constantly enlisting the support of their sportsman friends. This is the most effective means of building a strong, permanent membership and with more than 300,000 sportsmen now spreading the gospel of straight shooting, more and greater landmarks surely are in the offing.

Incidentally, we've had to make some changes in the starting of subscriptions because of the increased time required to address the RIFLEMAN. All subscriptions (except extensions) received after the 10th of the month are started with the issue dated the *second* month following the month subscription was received. For example, subscriptions received after April 10 and through May 11 will start with the June issue. Help us to help keep your file of the RIFLEMAN unbroken by always renewing your subscription *before* it expires.

JOHN C. GRAY

John C. Gray, well known to shooting circles as Ordnance Engineer in the Small Arms Branch, Research & Development Division of the Ordnance Department, died suddenly early on April 9, 1948. He had just passed his seventieth birthday and had been placed on the retired list for age, and was looking forward to being the honor guest at a testimonial dinner being given for him by his associates in the Ordnance Department.

During World War I, he was a Major on the General Staff on duty with the Inventions Section, and on his discharge from the Army in 1919 he accepted employment as a civilian engineer in the Ordnance where he served until his retirement at the end of February.

Gray was always a gun lover and an ardent and enthusiastic target shot and hunter. He was a close friend and associate of the late Sir Charles Ross, of Ross rifle fame, as well as of many other prominent persons who shared his enthusiasm for guns and shooting.

NEW FILM FOR CLUBS

If you are planning to make the trip to Washington for the NRA convention, here is the perfect opportunity to get in some groundwork on points of interest you will want to see during your visit.

"Invitation To The Nation," a 16 mm. color film with sound is now available to all NRA clubs free of charge except for transportation charges. During its ten minutes running time, the film shows scenes of the Capitol City and historic Virginia including the White House, Arlington, and Mount Vernon.

The picture won the 1947 Award as the best Public Relations film of the year and is available through the American Film Service, Inc., 1010 Vermont Ave., N. W., Washington, D. C.

COMING EVENTS

Regional Tournaments (Class A) and State or Division Championships (Class B) only are listed below. All other N. R. A. Registered Tournaments are listed in a printed schedule of coming events being mailed automatically to every classified shooter.

Tentative tournaments are indicated by an asterisk.

Tournaments requiring advance entries are indicated by (Adv.) and tournaments that plan to limit entries to a pre-determined number are indicated by (Ltd.)

Those tournaments where it is planned to hold tryouts for the Olympic Matches are indicated by (Oly.)

ALABAMA
October 16-17 (B)—Tenth Annual Alabama State Rifle Championship, Birmingham. C. C. Jones, 1139-16th Ave., So. **(Adv.-Ltd.)**

ARIZONA
May 16 (B)—Arizona State Pistol Championships, Tucson. C. Howard Hathaway, P. O. Box 71.

ARKANSAS
May 22-23 (B)—First Annual Wonder State Small Bore, Camp Joseph T. Robinson. M. F. Fiske, 212 East 17th St., North Little Rock. **(Adv.) (Oly.)**
June 26-27 (B)—Sixth Annual Arkansas State Rifle Association Pistol, Camp Robinson. M. F. Fiske, 212 East 17th St., North Little Rock. **(Adv.)**
October 2-3 (B)—Sixth Annual Arkansas State Rifle Association Small Bore Rifle, Camp Robinson. M. F. Fiske, 212 East 17th St., North Little Rock. **(Adv.-Ltd.)**

CALIFORNIA
June 5-6 (B)—Western States Rifle Championship, Richmond. Chilton DeWitt, 3701 Lincoln Ave., Oakland. **(Adv.-Oly)**
June 11-12-13 (A)—Pacific Coast Small Bore Regional, Santa Barbara. George C. Worden, 621 West Valerio St. **(Adv.-Ltd.-Oly.)**
June 16-17—Preliminary Olympic Pistol Tryout. Lt. Cliff Hatch, Oakland Police Depart., Oakland. **(Oly.)**
June 18-19-20 (B)—Pacific States Pistol Championship, San Francisco. Emil J. Dutil, 324-16th Ave.
June 27—Preliminary Olympic Pistol Tryout. Lt. Al Strand, Los Angeles Police Depart., Los Angeles. **(Oly.)**
August 28-29 (B)—Northern California Championship, Richmond. Chilton DeWitt, 3701 Lincoln Ave., Oakland. **(Adv.)**
October 15-16-17 (A)—Pacific Coast Pistol Regional, San Francisco. E. J. Dutil, 324-16th Ave.

COLORADO
June 6 (B)—Colorado State Registered Pistol Tournament, Denver. Lloyd F. Markle, 1006 Olive Street.
June 13 (B)—Colorado State Small Bore Tournament, Denver. Lloyd F. Markle, 1006 Olive St. **(Ltd.-Oly.)**
June 19—Preliminary Olympic Free Rifle Tryout. Lloyd Markle, 1006 Olive St., Denver. **(Oly.)**
June 20—Preliminary Olympic Pistol Tryout. Lloyd Markle, 1006 Olive St., Denver. **(Oly.)**
June 25-26-27 (A)—Rocky Mountain Pistol Regional, Camp George West. Lloyd F. Markle, 1006 Olive Street, Denver. **(Adv.-Ltd.-Oly.)**
July 3-4 (A)—Rocky Mountain Small Bore Rifle Regional Camp George West **(Adv.-Ltd.-Oly.)**

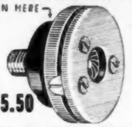
CONNECTICUT
June 12-13 (B)—Eleventh Annual Connecticut Small Bore, East Wallingford. L. M. Ahlberg, 40 Home Avenue, Middletown. **(Oly.)**
July 9-10-11 (A)—Northeastern Small Bore Regional, East Wallingford. J. Russell Lent, Middlefield. **(Adv.-Ltd.)**
October 2-3 (B)—Connecticut Valley Pistol Championship, Rocky Hill. G. G. Ledder, P. O. Box 19. **(Adv.-Ltd.)**

FLORIDA
June 25-26-27-28 (A)—Southeastern Pistol Regional, Jacksonville. J. A. Dowling, 453 West 68th Street. **(Adv.-Ltd.-Oly.)**
July 3-4—Preliminary Olympic Small-Bore Tryout. M. E. Johnston, 315 Taylor Ave., So., St. Petersburg. **(Oly.)**

GEORGIA
June 20—Preliminary Olympic Pistol Tryout. Gabe G. Jarrard, P. O. Box 224, Gainesville. **(Oly.)**

IDAHO
May 9 (B)—Idaho State Pistol Tournament, Boise. William Buskett, 2202 Madison Avenue. **(Adv.)**
May 30-31 (B)—Seventh Annual State Small Bore Championship, Boise. H. P. Greer, 4418 Emerald Street. **(Adv.-Ltd.)**

ILLINOIS
June 13—Preliminary Olympic Small-Bore Tryout. Byron E. Putman, 814 Ellis Ave., Wheaton. **(Oly.)**
June 20—Preliminary Olympic Pistol Tryout. Michael Gawron, 2814 N. Christiana Ave., Chicago. **(Oly.)**
September 12 (B)—Illinois State Rifle Association Small Bore Championships. Michael Gawron, 2814 N. Christiana Ave., Chicago.
October 3 (B)—Illinois State Pistol Matches, Bensenville. Michael Gawron, 2814 N. Christiana Avenue, Chicago. **(Adv.-Ltd.)**



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for riflemen who need optical aid

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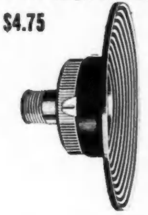

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.223 cal. 40, 45 gr. MV	$ 2.80
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.228 cal. 60 grain—$2.95 ---- 75 grain	3.25
.257 cal. 60 grain—$3.55 ---- 120 grain	3.75
.30 cal. 110 gr.	4.00
.30 cal. 150 gr. WR—150 gr. GP, 180 gr.	4.20
8 MM cal. 125 gr. $4.00. 170 gr.	4.20
PRIMERS: Large and small rifle, large and small pistol per M	6.30
POWDER: DuPont and Hercules, per lb.	1.80
Hercules Unique & Bullseye, DuPont No. 4759, 8 oz.	1.25
Gas Checks—.25, .30 and 8 MM caliber, per M	1.75
PACIFIC TOOLS, Complete for one caliber—Standard, $29.50—Super	36.50
Pacific and Universal dies in most calibers	
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IDEAL POWDER MEASURE, No. 55	10.00
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ACKLEY SNAP-ON MOUNTS	14.95
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Rifle's Accuracy . . . use a
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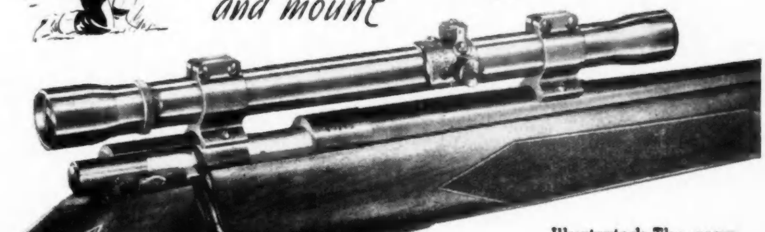

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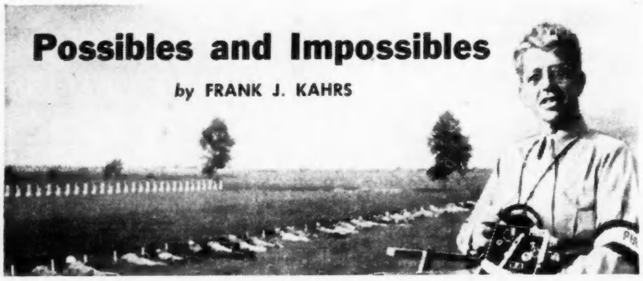
Department 1 **El Paso, Texas**

A PAPER FOR PEOPLE WHO SHOOT

Rifle Re ton

VOL. 11, NO. 5

BRIDGEPOR T, MAY, 19



Possibles and Impossibles

by FRANK J. KAHRS

Along about the middle of February I began to suspect that all was not well with my general health and disposition. So I had a long talk with myself and decided I needed a change of climate if I were to survive the rigors of a New England winter, and I mean a genuine New England winter—no foolin'. The nearest and quickest place to find summer was Florida, so we threw our gear in the car and started for the Land of Sunshine.

Soon after we hit the Florida State line we headed for St. Petersburg on the West Coast. On arrival we discovered that the Mid-Winter Small Bore Rifle Matches were scheduled to be held the following week. Imagine that! What a coincidence! In the meantime we wandered over to Clearwater and lo and behold the Clearwater Rifle and Pistol Club Ranges were in full operation. Another coincidence!

Came the day when the matches at St. Pete started and the snow birds from the north and west began to arrive. When "commence firing" was sounded around 150 of the top-notch shooters of the country were on hand. 23 states were represented and they came from as far as Texas and Oklahoma. It was a record crowd. And what a fine range they had rebuilt at St. Pete. A swell new grass firing point and 100 targets at 50 and 100 yards.

But the real attraction was the 20 target 200 yard range. Everything went along fine until Saturday and Sunday, the last two days of the Matches, when we were rained out. However, everybody had a grand time and declared they would be back next year.

Another coincidence! The following week the Pistol Shooters began to arrive at Tampa for the Annual Mid-Winter Pistol Championships. So we moved in too, and met many old friends. The entry list showed over 300 present. The weather man treated the Pistol Shoot better than he had the rifle boys, although there was plenty of wind and a wee bit of rain at times.

Now we are at Coral Gables, Miami, where we are putting the finishing touches to the Palmetto Pistol Matches, the first since the war. You haven't seen anything until you have been here. 35 targets roll out on an electrically and hydraulically controlled trellis affair on wheels. From the standpoint of efficient and speedy operation, you can't beat it. And it adds lots to the spectator interest because you can see what is going on all the time.

Our Southern sojourn is about over. We start rolling North tomorrow. Soon we will be in the middle of the tryouts for the Olympics, the Regionals and finally Camp Perry. It sure looks like a great year for the shooting sport.

* * *

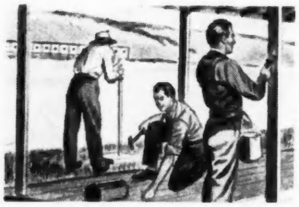
One of the up and coming rifle clubs in the deep South knows the value of publicity and contact with local and municipal authorities. The club in question decided to put on a banquet and invite the local city fathers. Of course, there was nothing selfish in this idea. It was simply to give everyone a chance to get acquainted and have a good time. However, the guests absorbed some of the enthusiasm of the club members and before the evening was over, pledges were made to help each other and cooperate to the fullest. Well, the result of the whole thing was that the Mayor has pledged support of the city in a municipal range and to tie in the local police training and police teams, and all that sort of thing.

Now there's a lot of food for thought in this. Long ago we learned that nothing is impossible; just a matter of digging into it and staying with it until you get what you want. Try it sometime.

Palma, Kleanbore, Targetmaster, Matchmaster are Reg. U. S. Pat. Off. by Remington Arms Company, Inc., Bridgeport, Conn.

"CLEAN-UP WEEK" WORKS TO IMPROVE CLUB GROUNDS -- AND SHOOTERS' MORALE

Whether a range is used several times a week or just occasionally, it should be kept in the best possible condition. This not only makes shooters happier (and actually promotes better shooting), but it makes fans and interested spectators contented, too.



Some clubs have instituted "Clean-Up Week" during which all able-bodied club members are assigned certain jobs around the club. The old saying, "Many hands make light work" has proved true! While some brush-slinging members paint over target frames, other members inspect the backstop and make necessary repairs. Most all agree that covered firing points are of prime importance. This annual "Clean-Up" really pays off. Perhaps the most important result is increased attendance because of increased interest.

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Shooters Are Mak
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Rifle and Match A

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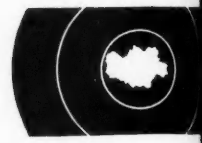
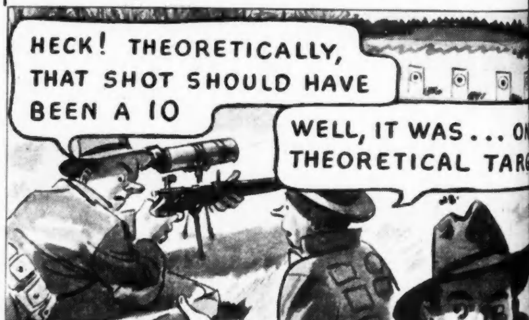


This group was sho yards outdoors with a nine o'clock wind. Pr sition, iron sights. The nation that produced t group was the ever accurate pair: a Re "Matchmaster" Model rifle and Remington Kleanbore ammunition.

THERE'S ONE IN EVERY CLUB . . . The Th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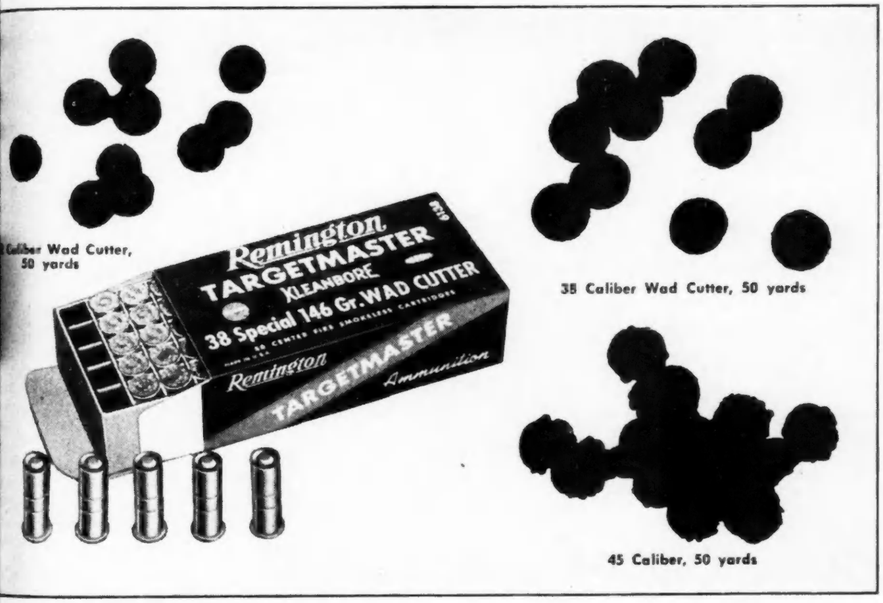
News

WEATHER:
Perfect for Spring Fever,
AND Cleaning Up the Club

MAY, 1948

First Class Reading Matter for Rifle and Pistol Shooters

SHOOTERS REPORTING OT REMINGTON GROUPS



Caliber Wad Cutter, 50 yards

38 Caliber Wad Cutter, 50 yards

45 Caliber, 50 yards

"VERY FIRST RELAY" CONVINCES GUN-BUG T REMINGTON MODEL 37 IS TOP MATCH RIFLE

here's one gun-bug who's a happier than he used to be! ittle while ago he agreed to out his friend's new Remton Model 37. Up to that e, he thought that "I'm do- O.K. with what I've got." He shot it in a club match, you should have seen his e. He was showing his tararound as if it were his first possible, instead of nth! And all he could talk ut for the rest of the day the Remington Model 37.

Remington Model 521T Becomes A Fast Favorite As Junior Clubs Spring Up by Leaps and Bounds

Dozens of rifle and pistol clubs have seen new Junior Clubs grow and become active under their direction in the past year. Interested Seniors have been rewarded a thousand times by the tremendous new enthusiasm, the eagerness to learn and the sportsmanship of the new Juniors.

Seniors and Juniors are excited about the new Remington Model 521T bolt action 22 rifle. Especially designed and built for youngsters, this fine rifle is a sharp-shooting combination. It is excellent for junior match shooting in all positions, and with the simple removal of the small aperture in the micrometer rear sight, it's a fine rifle for plinking and hunting small game and pests.

Riflemen Aren't Only Shooters Scoring High With Remington Ammo

Enthusiasm has always been high among pistol shooters for Remington Match ammunition. But never before have so many good reports been streaming in from all over the country telling about the consistent effectiveness of Remington "Targetmaster" center fire and "Police Targetmaster" rim fire cartridges.

Produced under the most carefully supervised manufacturing conditions, Remington Targetmaster match revolver cartridges must live up to rigid specifications all along the line. From the first step of bullet construction to the packing of the finished cartridges in their familiar red and green boxes (with partitions), this ammo must comply with the high standards of fine Remington performance.

Perhaps the most important test of all is the actual firing of finished cartridges taken right off the production line. These machine-rest tests give a clear indication of performance coming up on firing points the country over. These "guinea-pig" cartridges must produce tight and uniform groups.

Thus shooters continue to get only top quality and top performing Remington ammunition. This makes for more uniform groups and higher scores!

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Designed by Riflemen for Riflemen

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Autographed to you *personally* by the authors

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- HUNTING IN THE SOUTHWEST —by Jack O'Connor

The Arms and Ammunition editor of Outdoor Life, and one of the most widely traveled hunters in the country takes you on a tour of the Southwest — Arizona, northern Mexico, New Mexico, and West Texas. He tells you how to hunt mule deer, whitetails, antelope, desert sheep, Southwestern quail, and what sort of artillery to use on them. $4.00

- HUNTING IN THE ROCKIES —by Jack O'Connor

If you plan a trip to the grand game country of the Rocky Mountains from Colorado to the Yukon, or only dream of one, this book is your meat. It tells you where to find bighorn, Stone, and Dall sheep, moose, caribou, mountain goat, grizzly, and ALL Rocky Mountain game. And it tells you what to expect in the way of weather, what clothes to wear, what rifles to take, proper binoculars, where the best hunting spots are, how to choose an outfitter. $5.00

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INDIANA

June 20—Preliminary Olympic Small-Bore Tryout. Waunelia Heise, 316 Warren Bldg., Michigan City. **(Oly.)**

June 26-27 (A)—Midwestern Small Bore Regional, Bristol. Garnette R. Horner, 135 South Scott St., South Bend. **(Adv.-Ltd.-Oly.)**

IOWA

June 12-13 (B)—Iowa State Annual Pistol Tournament, Bettendorf. Carl Prevatil, 110 East Columbia, Apt. #2, Davenport. **(Adv.-Oly.)**

June 26-27 (A)—Middle States Small Bore Regional, Des Moines. Des Moines Rifle and Revolver Club, Box 1395. **(Adv.-Ltd.-Oly.)**

September 18-19 (B)—Iowa State Rifle Association Class B Small Bore, Des Moines. Des Moines Rifle and Revolver Club, Box 1395.

KENTUCKY

June 13 (B)—Kentucky State Open Pistol Championship, Louisville. J. R. Anderson, 1063 Bardstown Road. **(Adv.)**

LOUISIANA

July 2-3-4 (A)—Southwestern Pistol Regional, Shreveport. J. Howell Flournoy, 199 Preston St. **(Adv.-Ltd.)**

July 31-August 1 (B)—Louisiana State Small Bore, Monroe. Evans Ethridge, P. O. Box 590.

MAINE

June 20 (B)—Tenth Annual Maine State Pistol Tournament, Auburn. Ralph A. Wagg, R.F.D. #1-A, Auburn.

July 24-25 (B)—14th Annual Small Bore Rifle Tournament, Damariscotta. Ralph A. Wagg, R.F.D. #1-A, Auburn.

MARYLAND

June 11-12-13 (B)—9th Annual Maryland Revolver and Pistol Championships, Sparrows Point. G. F. Huesman, Sparrows Point Police Department. **(Adv.)**

June 27 (B)—Spring Small Bore Tournament, Randallstown. E. W. Stockhausen, 4614 Marble Hall Road, Baltimore. **(Adv.-Ltd.)**

August 29 (B)—Mid-Summer Small Bore Tournament, Randallstown. E. W. Stockhausen, 4614 Marble Hall Road, Baltimore. **(Adv.-Ltd.)**

September 19 (B)—Maryland State Small Bore Tournament, Randallstown. E. W. Stockhausen, 4614 Marble Hall Road, Baltimore. **(Adv.-Ltd.)**

MICHIGAN

May 8-9 (B)—1948 Gallery Rifle Championship Matches, Detroit. Erwin Brehm, 3813 Brewster, Dearborn. **(Adv.-Ltd.)**

June 6—Preliminary Olympic Small-Bore Tryout. W. S. Bailey, 1764 O'Connor, Lincoln Park. **(Oly.)**

September 5-6 (B)—Class B Pistol Tournament, Ann Arbor. Lt. H. G. Schulpe, Ann Arbor Police Department.

October 9-10 (B)—Michigan State Pistol Championship. Milford. Lewis C. Sanderson, 307 Hickory Ridge Road, R. R. #4.

MINNESOTA

June 20—Preliminary Olympic Small-Bore Tryout. Oscar Otten, 1321 W. 3rd St., Red Wing. **(Oly.)**

August 22 (B)—Minnesota State Championship Outdoor Pistol. Art W. Gernaud, Box 289, Willmar.

MISSOURI

June 19-20 (B)—Mississippi Pistol Championship, St. Louis. Francis H. Bentrup, 6330 Lucille Ave. **(Adv.-Ltd.)**

July 16-17-18 (A)—Middle States Pistol Regional, St. Louis. Frank Stubits, 5507 Lisette Avenue. **(Adv.-Ltd.)**

July 24-25 (B)—Missouri State Small Bore Championship, Warrensburg. R. H. Dorian, 4020 Blue Ridge Blvd., Kansas City. [Date changed from June 12-13]

MONTANA

July 4-5—Preliminary Olympic Small-Bore Tryout. Fred Mesenko, 700 Oak St., Anaconda. **(Oly.)**

NEVADA

May 15-16 (B)—Nevada State Small Bore Matches, Boulder City. Mrs. Dorothy D. Cox, Box 45 **(Adv.-Ltd.)**

June 12-13 (B)—Nevada State .30 Caliber Matches, Reno. P. W. Hayden, 2387 Westfield Avenue.

NEW JERSEY

May 29-30-31 (B)—10th Annual Sea Girt Small Bore Championship, Sea Girt. C. L. Hamm, 25 S. Munn St., E. Orange. **(Adv.-Oly.)**

NEW YORK

June 13—Preliminary Olympic Small-Bore Tryout. George R. Story, Box 95, Vernon. **(Oly.)**

July 3-4 (B)—New York State & Dutchess County Championship Pistol Tournament, Poughkeepsie. Martha W. Strahan, 30 Arnold Blvd.

August 14-15 (B)—New York State Rifle Championship, Bethpage, L.I.V.B. Cleaver, P. O. Box 356, Hicksville.

September 4-5 (A)—Northeastern Pistol Regional, Poughkeepsie. Martha W. Strahan, 30 Arnold Blvd. **(Odv.-Ltd.)**

NORTH CAROLINA

May 22-23 (B)—North Carolina State Pistol and Revolver Championship and Olympic Try-outs, Durham. Frank G. Satterfield, Jr., 2119 W. Club Blvd. **(Adv.-Ltd.-Oly.)**

June 5-6—Preliminary Olympic Small-Bore Tryout. Mrs. F. M. Molt, 403 Charlotte St., Asheville. **(Oly.)**

OHIO

May 22-23 (B)—17th Annual Fort Harmar Open Small Bore, Marietta. Roy J. Donnelly, 510 Third Street.

June 19-20 (B)—Ohio Rifle and Pistol Association Small Bore, Mt. Gilead. John R. Lang, 3498 Meadow Avenue, Cincinnati, 11. **(Oly.)**
July 31, August 1 (B)—Ohio State .30 Caliber Championships, Camp Perry. Ray T. Bayless, 7301 Euclid Avenue, Cleveland 3.
September 18-19 (B)—20th Annual Ohio Pistol Championships, Columbus. Cpl. A. L. Schmieg, 1117 E. Broad Street. **(Adv.)**
October 9-10 (B)—Ohio State Outdoor Team Matches, Mt. Gilead. John R. Lang, 3498 Meadow Avenue, Cincinnati. **(Adv.)**

OKLAHOMA

June 12-13 (B)—Magic Empire Small Bore Tournament, Tulsa. D. P. Young, 216 East Archer. **(Adv.-Oly.)**
July 10-11 (B)—Oklahoma .30 Caliber Championships, Claremore. Ernest M. Fuller, 207 South Toledo, Tulsa. **(Adv.-Ltd.)**
July 24-25 (B)—Oklahoma State Pistol Championships, Tulsa. Ernest M. Fuller, 207 South Toledo. **(Adv.-Ltd.)**
Sept. 11-12 (B)—Oklahoma State Small Bore Championships, Tulsa. Ernest M. Fuller, 207 South Toledo. **(Adv.-Ltd.)**
October 23-24 (B)—Oil Capitol Fall Small Bore Tournament, Tulsa. Don P. Young, 216 East Archer. **(Adv.)**

OREGON

June 6 (B)—Oregon State Pistol Championship, Clackamas. John S. Altmanns, 405 N. Stanton St., Portland 12. **(Adv.-Ltd.-Oly)**
June 26-27 (B)—Oregon State Small Bore Championship, Clackamas. A. P. Tauscher, 1849 S. W. Salmon Street, Portland. **(Adv.-Ltd.-Oly.)**

PENNSYLVANIA

May 22-23—Preliminary Olympic Small-Bore Tryout. C. W. Senseman, 425 S. 13th St., Harrisburg. **(Oly.)**
June 5-6—Preliminary Olympic Pistol Tryout. F. H. Wells, 3800 Hillcrest Rd., Harrisburg. **(Oly.)**
July 4-5 (A)—Eastern Small Bore Regional, Altoona. John E. Kaylor, 709 Fourth Avenue, Juniata. **(Adv.-Ltd.)**
August 7-8 (B)—Pennsylvania State Rifle Championship, Altoona. R. B. Barry, 407 2nd Avenue. **(Adv.-Ltd.)**
September 25-26 (B)—Pennsylvania State Pistol Championship, Harrisburg. W. K. Van Horn, c/o A-MP, 323 South Cameron Street. **(Adv.-Ltd.)**

TENNESSEE

May 29-30 (B)—Tennessee State Small Bore Championship, Knoxville. A. W. Nine, 104 Underwood Place. **(Adv.-Oly.)**
June 6 (B)—Tennessee Championship Pistol Tournament, Nashville. Frank B. Hill, 2902 Snowden Road.

TEXAS

May 15-16 (B)—Southwestern Rifle Tournament, Dallas. V. A. Moore, 208 N. Akard. **(Oly.)**
May 22-23 (B)—Southwestern Pistol Tournament, Dallas. Betty McPhee, 3024 Knox St.
May 29-30 (B)—Texas State Rifle Association Annual Small Bore Rifle Matches, Austin. Henry H. Hankey, 823 Harris Avenue.
June 5-6 (B)—Texas State Rifle Association Annual Pistol Matches, Austin. Henry H. Hankey, 823 Harris Avenue.
June 26-27 (A)—Southwestern Small Bore Regional, Dallas. H. J. Sides, 2654 Easter. **(Adv.-Ltd-Oly.)**
October 9-10 (B)—Ada Zilker Robinson Match, Austin. Joe B. Taylor, 1204 W. 10th Street.

UTAH

June 6—Preliminary Olympic Small-Bore Tryout. D. C. Sugden, 3 N. 7th West, Salt Lake City. **(Oly.)**

VERMONT

May 23—Preliminary Olympic Small-Bore Tryout. Richard Weinka, Fellows Gear Shaper R. & P. Club, Springfield. **(Oly.)**
July 25 (B)—9th Annual Vermont State Pistol and Revolver Tournament, Northfield. Louis B. Tims, 4 Wilder Street, Montpelier. **(Adv.-Ltd.)**
September 11-12 (B)—Vermont State Small Bore Tournament, Woodstock. Forrest Quinn.

VIRGINIA

July 3-4-5 (A)—Eastern Pistol Regional, Quantico. Captain H. J. Thomas, Quarters 431, Marine Base. **(Adv.-Ltd.-Oly)**

WASHINGTON

May 23 (B)—Washington State Small Bore Rifle Championship, Seattle. C. M. Styer, 120 West Hudson Street. **(Adv.-Ltd.-Oly.)**
June 12-13 (A)—Pacific Northwest Small Bore Regional, Seattle. C. M. Styer, 120 West Hudson Street. **(Adv.-Ltd.-Oly.)**
July 4—Preliminary Olympic Free Rifle Tryout. C. M. Styer, 120 W. Hudson St., Seattle. **(Oly.)**
July 10-11 (A)—Pacific Northwest Pistol Regional, South Bend. Malcolm B. Edwards, P.O. Box 252. **(Adv.-Ltd.)**

WEST VIRGINIA

September 5-6 (B)—Eleventh Annual Mountain State Pistol, Parkersburg. R. A. Simpson, 212 W. 10th St.

WISCONSIN

May 22-23 (B)—Sparta-McCoy High Power Rifle Tournament. Earle J. Lucas, 801 N. Water St., Sparta, Wisc.
June 6—Preliminary Olympic Small-Bore Tryout. Col. J. J. Ring, 1842 N. 83rd St., Wauwatosa. **(Oly.)**

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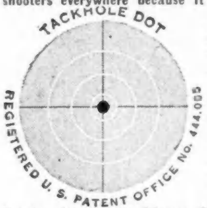

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DANGEROUS GUN AND CARTRIDGE COMBINATIONS

Mr. Edwin Pugsley of the Winchester Repeating Arms Company, Division of Olin Industries, has given us a list of several cartridges that can be put into wrong chambers, with a chance of resultant damage. The list, suggested by the Ballistic Department of the Winchester Repeating Arms Company, does not pretend to include all the dangerous combinations that exist—no doubt there are others, but the ones given are the result of actual experience and tests.

Name of cartridge	*Dangerous in guns chambered for*
7 mm.	.270 WCF
.30 WCF (.30-30)	.270 WCF
.300 Savage	.270 WCF
.300 Savage	7 mm.
.30-'06	.300 Magnum
8 mm.	.30-'06
.35 Remington	.270 WCF
.35 Remington	.30-'06
.35 Remington	.348 WCF

Mr. Pugsley writes, "We continually warn shooters in our ranges against such possibilities and it occurred to me that others should be warned."

Note: We are much indebted to Mr. Pugsley for his thoughtfulness in passing along this information.

We might add the well-known fact that it is exceedingly dangerous to get 20-gauge shotgun shells mixed in with a pocketful of 12's. A 20-gauge shell inserted in the chamber of a 12-gauge gun will go all the way in, out of sight, and lodge just at the throat of the chamber. If a 12-gauge shell is then inserted in the chamber and fired, the gun will be blown up.—J. S. H.

NEW SPOT SHOT TARGET SCOPE

Realizing the demand for a moderately priced target scope, R. A. Litschert, Winchester, Ind., has actually produced a worth while one. In appearance the Spot Shot looks like most any other target scope, except for the objective focusing arrangement to remove parallax and to set for different ranges. Instead of the threaded focusing sleeve and locking ring, the nonrotating objective lens unit is merely pushed back and forth, as it is a snug sliding fit in the enlarged front end of the scope tube. When adjusted, the objective is secured by means of a slotted, knurled locking screw located at about a 45 degree angle on the lower right side of the objective end.

The scope, which is 24 inches long, has a 1¼-inch (1 and ⅛ inch clear) objective. The achromatic lenses are coated. The optics are excellent for a scope selling at $39.95, and delivered equipped with the regular Litschert target mounts. The scope is available in ten and twelve power. In ten power the field of view is ten feet and ten inches. The field is listed as nine feet at 100 yards for the twelve power. The sample tried was in surprisingly good focus at 100, 200, and 300 yards for a ten power scope. There was practically no parallax at any of these ranges. The Spot Shot can be exchanged for higher priced Litschert models by paying the difference in price of the various styles.—A. H. B.

NEW MARLIN RIFLE

Last month, in New York City, the Marlin Firearms Company gave a group of gun editors and writers a preview of two models of a new Marlin semiautomatic rifle. Both models appeared to be the same with the exception that one, the Model 88-C, is fitted with a fifteen-round tubular magazine and the other, the Model 89-C, feeds from a seven-round clip.

We all had a chance to fire the new rifle and the effect was pleasing. The action was smooth and out of 1,500 rounds fired there was not a single malfunction. The rear sight is a peep and the front sight is a hooded bead fitted into a standard dovetail slot. The rifle tips the scale at six and three-quarter pounds.

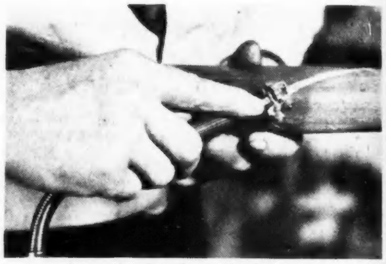
Marlin expects to have both models ready for sale about May 1. In the meantime we hope to get our hands on one so we will be in a position to give you more specific information concerning it.—E. B.

ELECTRIC CHECKERING TOOL

At best, except for experts, checkering a gunstock is a slow, tedious job. Also, some experience is necessary to produce a finished job. Now the Dem-Bart Company, Box 700, Tacoma 1, Wash., has designed and is manufacturing an electric checkering tool which will speed up the job. Like any precision tool, some experience is absolutely necessary to properly handle this fine equipment.

The outfit consists of a small high-speed motor, flexible shaft, foot speed and switch control, and the checkering tool head. The speed of the cutting wheel is factory adjusted to a maximum of 2500 r.p.m.

The checkering tool head is adjustable to produce spacing lines of from 14 to 32 lines per inch by micro clicks. The depth of the cutting wheel is adjustable also by micro clicks. Before using this Magic tool, master layout lines must be made with the conventional V-checkering hand tool. Then the guide shoe is placed in the master line and the foot switch pressed down to the desired operating speed. The cutter is then held at a 45 degree angle and pulled toward the operator, although it will work with a pushing motion also. Through experience we believe the pulling motion most satisfactory.



Using the Dembart checkering tool

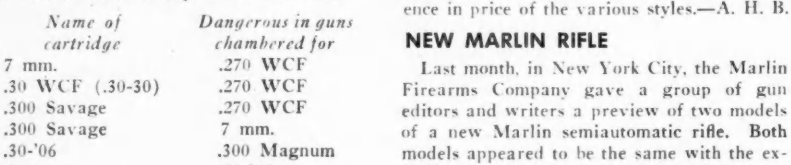
We have been using one of these tools for some time now and believe that the only requirement for a finished job is some experience, which should not be gained on a fine gunstock but on scrap pieces of wood or an old discarded stock. Once the operating technique is learned, a checkering job can be completed in a fraction of the time required by the conventional method.

As the cutter operates at high speed, an error or run-over can occur equally as rapidly. Proficiency in the use of the tool can be gained only by experience and practice. The cost of the outfit, $125, would indicate that a professional would profit more than the amateur who does an occasional checkering job.

From what we have seen of the electric checkering tool, it is a well-designed, well-built, and unique instrument.—A. H. B.

SHOTGUN FOR THE HANDICAPPED

Last October a young fellow of slender build, weighing 140 pounds, 5 feet 8 inches tall, and minus his right arm, walked into my shop and asked me to build him a one-arm gun. Before I could suggest a light 20-gauge double, he tells me he wants a 12-gauge semiauto with a Poly Choke. Ducks, deer, and Blue Rocks are his sport. I doped out the gun illustrated.



Shotgun altered for use by a one-armed shooter

This boy had a very successful season, bagging rabbits, quail, a pheasant, ducks, and a deer. He shot at and broke four Blue Rocks out of six the first day he shot the gun. Naturally, the gun fits him perfectly. The loading is simple. The safety is sloppy but sure and easily operated with the upper part of left index finger.

I believe there are many good sportsmen who, like this fellow, have had the misfortune to lose an arm and who would like to have a gun they could safely carry afield. I would suggest, however, they use a 20-gauge semiauto or double. They would certainly handle faster and be less tiresome to carry.

Keeping down the weight was my biggest problem. The gun is not pretty, but I had only a short time in which to build it, and it proved practical.—MORRIS L. MENG, Triangle Sports, Sewell, N. J.

NEW B&L RIFLE SCOPE AND MOUNT

On a visit to the Bausch & Lomb factory in Rochester, N. Y., over a year ago, we saw an experimental model of the new variable power rifle telescope sight that the Bausch & Lomb engineers were working on. Since that time, they have written us several times asking technical questions about such matters as the most desirable location for the eye point of the scope.

Recently Jack Brandt of B&L brought in the latest model of this new scope fitted on a Winchester Model 70 with one of the unique new B&L mounts, and spent a day shooting it on the range with Al Barr and getting the comments and criticisms of the NRA staff. Our tests indicated that the basic design was excellent, but did develop the need for one or two very minor changes, which are now being made.

The outstanding feature of the scope is the fact that it can be changed from 2½ to 4 power and back again in an instant by a quarter turn of a knurled ring just forward of the eyepiece. This can be done while looking through the scope, and it is quite startling to see the objects in the field of view get larger and smaller as the ring is turned from one position to the other.

Complications in construction are avoided by having the elevation and windage adjustments in the mount rather than in the scope.

The mount itself has two sets of steel cones for the scope to rest in, with the front cones adjustable for windage and the back ones adjustable for elevation. At first glance this B&L mount looks much like the new Stith mount, but a closer examination will show that it is different in principle, and employs a mechanism to obtain the horizontal and vertical adjustments that is entirely different from that used by Stith.

In shooting this new scope we noted particularly that there was no change in zero in going from 2½ to 4 power and back again. Incidentally, there was no change in eye relief either as far as we could see.

After we receive one of the new scopes and mounts that we can keep long enough to give it a more thorough test, this preliminary report will be supplemented with further information.—J. S. H.

THE BULLET TRAP

W. J. Fitzgerald & Company, 1420 Woodward Avenue, Royal Oak, Michigan, manufactures a device for use as a backstop in target shooting known as the "Bullet Trap." It sells for $19.50. This device is so light,

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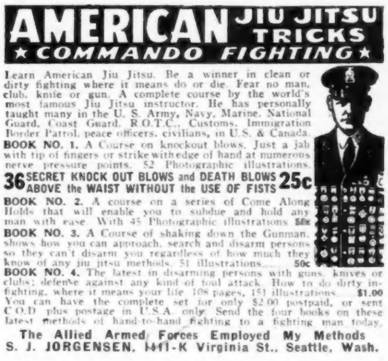
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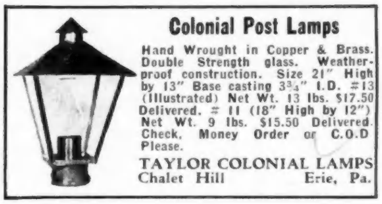
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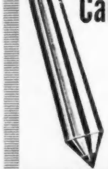

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handy, and portable that we thought we would try one out and see just how much it would stand.

We gave one of these bullet traps a rather severe test, as we not only fired a large number of rounds of .22 caliber ammunition into it, but we also fired .38 Specials and other heavier loads which one would hardly expect the rather light and portable trap to stand.

The results of our test has shown, as we expected, that this trap will stop .22 rimfires but it is definitely not suited for larger caliber ammunition, nor would it be suitable for heavy duty work with .22 rimfires such as would be encountered in a shooting gallery where thousands of rounds are fired into it, day after day. It will stop the .22 rimfire however and is a nice, handy, desirable little gadget to have along on a camping trip or anywhere else where plinking is to be done with the .22 rimfire, and where the total number of rounds to be fired is not too great.—J. S. H.

HEAVY HANDGUN LOADS

Do you have any information concerning data printed in Elmer Keith's *Sixgun Cartridges & Loads?* The calibers I am interested in are .38-44 Special and .357 Magnum Smith & Wesson.

For the .38-44 Special, Keith gives a charge of 13.5 grains Hercules No. 2400 powder with the Keith 160-grain hollow-point bullet, sized to .358 inch. For the .357 Magnum S. & W., using the same bullet sized to .358 inch, he lists a maximum charge of 15 grains Hercules No. 2400 and a recommended charge of 14.5 grains.

In Phil Sharpe's *Complete Guide to Handloading* I have been unable to find anything that "hot" and am wondering if the above charges aren't a little high with a 160-grain bullet.

I do not have a .38-44 Special revolver, but I do have a .357 Magnum made by Smith & Wesson. I have tried the .38-44 Special load and it has so much "oomph" that I am afraid to try the ones for the .357 without first learning something about the pressures and velocities involved with such loads.

I want to make reloads for the .357 that will at least be equal to factory ammunition, but I am also trying to avoid excessively high pressures. I have no way of testing pressures except by the old primer-flattening method, which is very unreliable.—L. D. SMITH, Tarentum, Penna.

Answer: Any heavy handload of a handgun cartridge should first be tried by reducing the maximum recommended powder charge 1 to 2 grains. That is what I do and I am definitely recommending that you do likewise when working up to those hot loads published by Keith. You must remember that bullet diameter is important and even .001 to .002 over-size would increase the pressure considerably. Therefore, you are on your own if you use more than 1 grain under those loads listed by Elmer Keith. I have used such loads in both the .38 Special and .357 Magnum, but it was done experimentally.

Remember that when you get too high velocity in a cartridge like the Magnum you are getting into very high pressure. It is quoted up to the 35,000 pounds figure. That means a slight error could cause trouble. I am passing this along merely as a warning and not to say that Keith's loads were unsafe, because I am confident he has used them.—A. H. B.

MAGAZINE STOP FOR COLT WOODSMAN

To limit the magazine capacity of the Colt Woodsman .22 caliber pistol, take an eight penny common nail and cut the point off to make the over-all length 2⅛ inches. Then dip it in bacon grease and heat it over the gas stove for finish. Place the nail over and inside the coiled magazine spring with the head against the magazine follower. You will then find that it is possible to load only five cartridges.—LUCIEN P. TUCKERMAN, Washington, D. C.

RUPTURED CARTRIDGE CASES

Recently I have had three cartridge cases rupture upon firing. From examination of them can you tell me the cause? One .22 Varminter case was loaded with 37 grains of No. 4320 powder and a .046-inch grease wad behind a 55-grain Wotkyns-Morse bullet. This gave the only rupture in a gun which has been fired about 1000 rounds. The action is Winchester Model 70 and was rebarreled by Jerry Gebby. In reloading I have not trimmed any cases yet, but have sent for a trimmer. The other two split cases occurred in an 8 mm. Mauser, a new 1941 army rifle. The load that opened them up was 48 grains of No. 3031 powder and an .046-inch grease wad behind a 150-grain bullet. No damage was done when the cases blew, but I do not want something like that to happen again. Any advice you have to offer will be greatly appreciated.—T. R. CONRAD, Indiana, Pa.

Answer: Your ruptured cases show every indication of excessive headspace.

While I do not know what kind of reloading tools you are using, I get the idea that, providing you are full-length sizing the cases, you are oversizing them or setting the shoulder back, thus causing a headspace condition. In fact, the Varminter case is 1.950 inches long, or more than .025 inch longer than it should be. That indicates stretching.

Once a case has been fired in a chamber it is a good form fit and the only thing that would change that condition would be oversizing, although most reloading tool dies are so made that excessive sizing is impossible. The thing for you to do in reloading both for the 8 mm. and the Varminter is to be sure that you size only the neck or full-length size to the minimum necessary.—A. H. B.

SPECIAL TRIGGER MECHANISM

The Dayton Traister Co., 34 S.E. 66th Ave., Portland 16, Oregon, has developed a trigger mechanism, called the Mark II, for the Mauser, Springfield, and Enfield rifles on which the bolt has been altered to cock on the opening motion. There is another, the EN Model, for the unaltered Enfields. This is the one we installed. The only requirement to fit the EN and get a 7/32-inch striker travel is to lengthen the sear opening in the receiver channel by cutting it forward 15/32 inch.

The new trigger unit is then installed along with the special heavy mainspring furnished with the trigger. The result is a clean pull, without creep or backslap, and a very short speed action. The striker is still partially cocked on closing the bolt. With this trigger the safety operates against the rear hook of the Enfield cocking piece, instead of the original cut made for it. The trigger we installed is quite satisfactory; it eliminates many of the problems encountered when converting the Enfield to speed action.—A. H. B.

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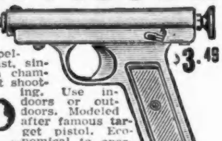

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REBARRELED 7.7 RIFLE

I have just completed rebarreling a Jap 7.7 mm. rifle to .30-'06, using a .30 caliber machine gun barrel which I cut down from 4 pounds to 2¼ pounds and left 24 inches long.

In order to fit this barrel to the action it was necessary to make a bushing. For this I used the Jap barrel, as my lathes would not cut millimeter threads, which the Jap action had. The rifle, unloaded, weighs 7 pounds, 1 ounce.

Do you think the weak point, which is the bushing, will give any serious trouble?

I would like to know the land and groove dimensions and, if possible, the material used in this barrel.

Does the serial number 10465 give any information as to date of manufacture or of material used?—James P. Smith, Boulder, Colorado.

Answer: When we do some of the unorthodox things which are possible, such as rebarreling and fitting bushings to actions for a powerful cartridge such as the '06, the only proper thing to do is find out at first hand how safe the rifle is by firing proof or extreme maximum loads in the gun. Standing behind the corner of a building or a tree, I would pull the trigger by means of a long string.

For the two or more .30-'06 proof loads, I would use 53 grains of No. 4320 powder or 52 grains of No. 4064 with 220-grain bullets. They are the loads listed for the lighter 180-grain bullet. You should follow the two proof-loads with at least five regular .30-'06 loads, still using the string to fire them. If anything is going to happen, it should before you get through with that test.

Neither could I tell you the exact barrel and groove dimensions of the barrel you have, but surely with a micrometer and a soft lead slug you can find that out quickly. Being .303 caliber, it should be standard or near .312 to .314 inch for the grooves.

The serial number on the Jap rifle does not give enough information on when it was manufactured.

I personally do not think much of the idea of using a bushing on the barrel, which is already too small for the receiver. Incidentally, that original Jap barrel rechambered to .30-'06 caliber possibly would have been a safer combination and probably given about as good accuracy.—A. H. B.

FEMCO ADJUSTABLE HEADSPACE GAUGE

Femco, 1115 N.E. 60th Ave., Portland 13, Oregon, is marketing micro-adjustable headspace gauges for $7.50. This gauge, shaped like a cartridge with a bullet in it, can be placed in the magazine and fed into the chamber of a rifle without removing extractor or firing pin. A hole in the center of the head, where the primer would be in a cartridge, permits the gun to be snapped while the gauge is in the rifle without causing damage to either firing pin or gauge.

The gauge is made on the principle of a micrometer caliber. The one we have for the .30-'06 rifle has the zero mark corresponding to the minimum headspace of 1.940 inches and is graduated by thousandths so that it can be set to any reading above or below the minimum headspace reading that is desired.

We placed the gauge in a 1917 Enfield rifle and adjusted it so that the bolt of the rifle would not quite close. We marked the point the bolt handle would come to on the wood of the rifle, then removed the gauge and placed a solid headspace gauge, corresponding in size to the reading on the Femco gauge, in the chamber of the rifle. We then tried to close the bolt and noted that the handle came to exactly the spot we had marked on the stock with the Femco gauge in place, showing that the results were the same whether the Femco or a solid headspace gauge was used.

We made similar comparisons in several other rifles chambered for the .30-'06 cartridge. In every case the reading was the same with the micro-adjustable gauge as with a solid gauge.

While we believe that a set of the solid gauges would be preferable where extreme accuracy is required, we feel that the Femco adjustable gauge is extremely handy and gives readings which are well within the limits of practical usefulness.—J. S. H.

STRENGTH OF THE GARAND

I have a clear recollection of having read, in the two or three articles on the Garand rifle which have appeared in THE AMERICAN RIFLEMAN during the past year, the statement that the action of a Garand was stronger than that of the Springfield. Recently the local gunsmith made the statement that sporting ammunition could not be fired with safety in the Garand because it creates a greater breech pressure than the rifle was designed for and that is set up by Army ammunition.

I challenged the correctness of this statement, but upon trying to find the statement referred to in the RIFLEMAN, I discovered nothing to that effect and hence suspect that I must have read it elsewhere. Since I have a friend, a Naval officer, who is using a Garand with sporting ammunition, it occurred to me that he ought to be warned. Will you please inform me whether the gunsmith's assertion is true?—GEORGE W. FOLTA, Juneau, Alaska.

Answer: What you read about the strength of the Garand action was probably the discussion on page 206 of *Hatcher's Notebook*. It shows that the Garand action will stand up to 120,000 pounds per square inch powder pressure and has perhaps the strongest action of any military shoulder rifle in existence at this time. You may also be thinking of the statement at the top of page 12 in the RIFLEMAN, September, 1947, in which Mr. Garand states that the breech of his rifle is "completely closed at the rear end, thus absolutely preventing any blowback of particles through the mechanism. Moreover the breech recess and bolt are purposely so proportioned that any gas which might leak out about the bolt would be deflected upward, above the shooter's eyes."

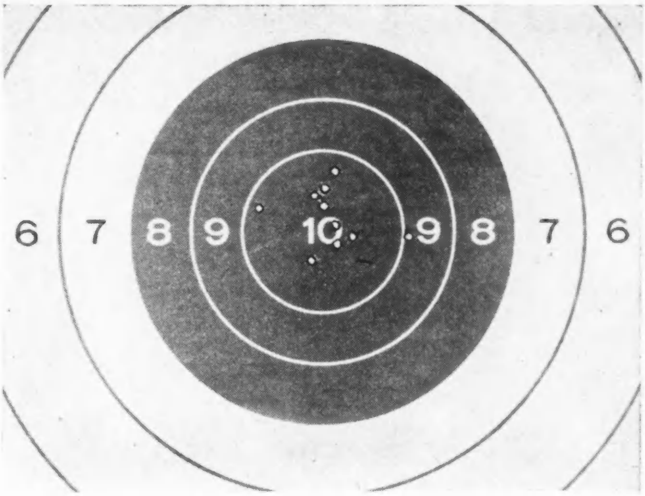
The breech action of the M1 Garand rifle is stronger than that of the Springfield or other similar rifles.—J. S. H.

SCOTCH TAPE FOR LOOSE CHAMBERS

I did a little experimental loading of ammunition for the Jap 7.7 mm. rifle some time back, using a new rifle for testing the loads.

In dissecting the Jap service round to ascertain critical dimensions, using the largest of a dozen cartridges furnished with the gun, I found the dimensions in substantial agreement with the data published in THE RIFLEMAN for June 1945.

The primer is Berdan and is larger than our large rifle primer, making conversion of the Jap case impracticable. The next thing



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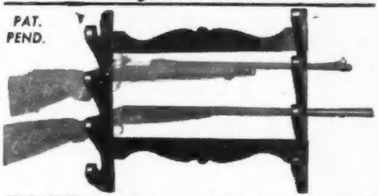

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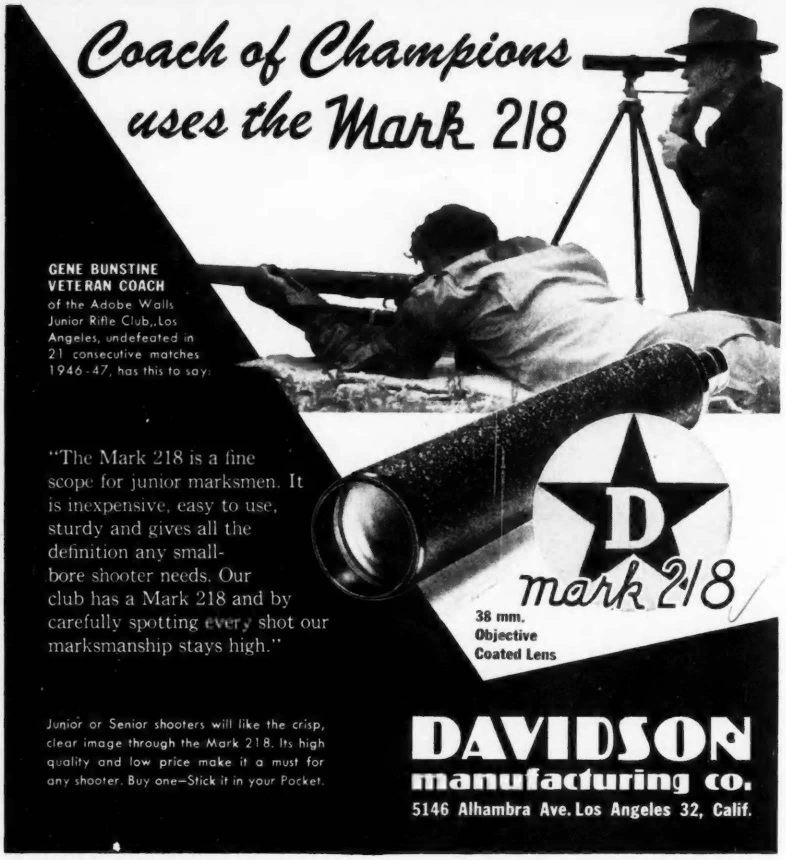

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to try, obviously, was forming cases from .30-'06 brass. This was done by setting back the shoulder of the case in the Frankford Arsenal loading press with the '06 die, then cutting off necks. Using FA No. 70 primers, 16 grains of Du Pont 80 powder, and the 169-grain Squibb gas check bullet, excellent 100-yard accuracy was obtained with no trouble other than the expected distortion of the case ahead of the base, due to the .006 inch (approximate) difference in basic diameter between '06 brass and the Jap service case. I used No. 80 powder, because of its characteristically high initial base pressure in the case, to verify the expected bulging. I also fired a couple of charges with brass known to be brittle and got the expected splitting effect in the case ahead of the base.

I figured that the splitting would be avoided if the case was lined up with the axis of the bore. This should theoretically distribute the expansion equally around the circumference. Then of course there came up for consideration the old expedient of wrapping the case with paper. From there it was only a step to arrive at Scotch Tape.

The results were very gratifying, the primers were struck centrally, the case expanded so evenly no distortion was visible, and there were no splits with even the brittle cases. The Tape stuck on so well the cartridges fed through the magazine without tearing. I reloaded the same cases, neck-sizing them without destroying the tape, and then fired them with a charge increased to give an estimated velocity of 1800-1900 foot seconds (Hercules 2400). The tape was still usable for another firing.

I cleaned the tape from one case that pressure had caused to adhere so tightly it required scraping off with a sharp knife. At the forward edge of the tape ring there was a clearly defined ridge on the case; evidently the tape resists compression admirably. I do not believe, with proper attention given to head-spacing the cases for the gun in which they are to be fired, that any danger of separation would arise due to this ring. Some of this ammunition has been fired in several other 7.7 mm. Jap rifles and no case trouble has arisen. The use of Scotch Tape may also be of some use in case forming of other wildcats or substitute cases, and on the .30-'06 cartridges to be used in rechambered rifles.—Leroy H. Anderson, El Paso, Texas.

Answer: This is a very ingenious solution to the difficulty which has been so widely experienced with .30-'06 cases in rechambered Jap rifles owing to the fact that the chamber is a little too large at the rear end.

We have not yet tried this out enough to be able to state that it will always work perfectly, but anyway we think it is worth trying. After more experiments we may be able to tell you more about it. I see no harm in experimenting with this, but as always we want to stress the fact that in all experimental shooting (or in regular shooting too, for that matter), a good strong pair of shooting glasses, should be worn; not that we expect trouble, but just to be on the safe side.—J. S. H.

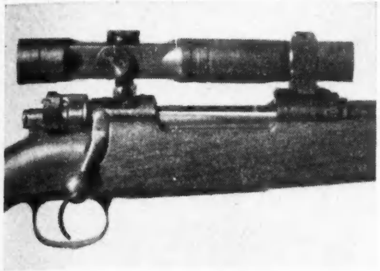
PRIMER POCKET DIAMETER

While working over some .30-'06 issue cases, I found that those stamped 'U-43' had a larger primer flash hole than others. They would accept a 3/32-inch drill, while other cases of different manufacture would reject that size drill. I checked cases from all other manufacturers and think I have them all, but the 'U-43' lot were the only ones with that size flash hole.—LT. CARLTON H. CONROW, Ontario, Calif.

Answer: I never like to mix cartridge cases of any one caliber that were made at different arsenals or by different arms manufacturers. There is enough variation in flash hole, primer pocket, and other specifications so as to make a slight difference. The cases you have marked 'U-43' were made at the Utah Ordnance Plant in Salt Lake City. It may be they had a slightly oversized punch to make the primer pockets as large as they are. I would not mix them with others, but otherwise they should be OK.—A. H. B.

MOUNT FOR ZF-4 SCOPE

The enclosed photo shows a method of mounting one of the German ZF-4 scopes which a customer insisted on using. After some thought it was decided that by making an extension tube for the front end of the scope it would facilitate mounting in some form of standard American mount, besides forming an excellent sunshade.



Tilden mount modified for use with ZF-4 Scope

The mount is a Tilden with 26.5 mm. rings, although the rear ring could not be used, of course. In its place a base was manufactured to fit the rear block. The scope is readily removable in the usual manner and appears to be 'standing the gaff.' The typical German reticule of three washline posts was removed and altered. Other alterations necessary were the low bolt handle and scope safety.—ELWOOD L. GOOSE, Sheboygan, Wisconsin.

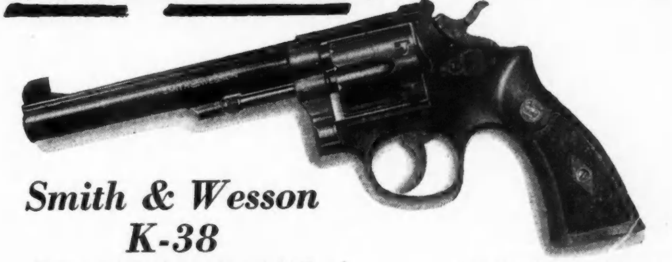
AMMUNITION FOR JAPANESE SERVICE REVOLVER

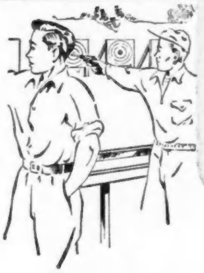
I find that the .38 Short Colt cartridge works swell in my 9 mm. Japanese service revolver after the simple operation of relieving the headspace slightly.

The Jap cartridge evidently has a thinner rim than American cartridges, and the .38 Short Colt will fit a little too tight at the firing position to allow the free turning of the cylinder. However, a few strokes of a file across where the firing pin comes through will relieve this. Of course, it should be smoothed up with some fine emery cloth after the filing.

This operation might make it a little loose on headspace if the Jap ammunition were used afterward, but I doubt it. The operation takes off very little metal and that cartridge is not very powerful anyway. The revolver shoots quite well.—W. I. BOWMAN, Danville, Ill.

Answer: This is a good way to make the Jap 9 mm. service revolver usable in case you can find the .38 Short Colt ammunition, which is not a very popular cartridge and rather hard to find nowadays.—J. S. H.





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See Page 74 PAUL D. RATLIFF Spokane, Wash.

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.257 Imp.
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.219 Zipper CCC.
.220 Swift CCC
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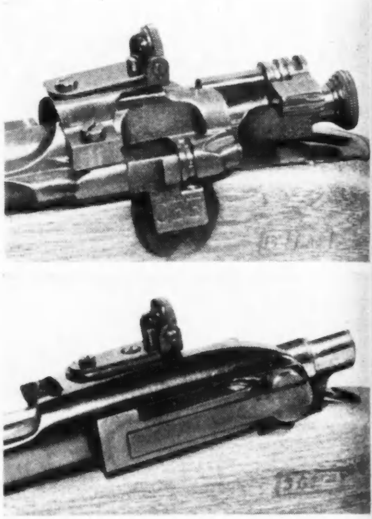
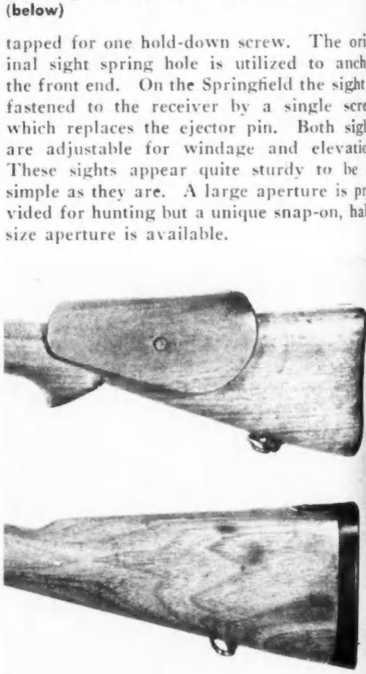
INSTALL-IT-YOURSELF RIFLE ACCESSORIES

Many owners of military rifles want to modify them to sporters, but frequently have trouble fitting receiver sights, barrel bands, and buttplates. Some of these problems are now eliminated as William P. Spofford, 720 Ogden Ave., Swarthmore, Pennsylvania, has brought out a line of easily installed "Peel" accessories.

These are aperture sights for the Springfields and for those Enfields which have the oval milled recess in the receiver bridge. Those without the recess must be drilled and tapped for one hold-down screw. The original sight spring hole is utilized to anchor the front end. On the Springfield the sight is fastened to the receiver by a single screw which replaces the ejector pin. Both sights are adjustable for windage and elevation. These sights appear quite sturdy to be as simple as they are. A large aperture is provided for hunting but a unique snap-on, half-size aperture is available.



'Peel' sight on Springfield (above) and Enfield (below)



'Peel' cheekpiece in place on Enfield (above) and oxidized buttplace for Springfield (below)

Other items are easily installed—flexible outside barrel bands for the cut-down military stock, and a walnut cheekpiece for the Enfield. The photo shows how the stock looks with cheekpiece in place and the bottom line of the butt stock altered or raised. Instructions are furnished for this simple job.

To lengthen the rather short Springfield butt stock, the original is replaced with a thick Peel oxidized aluminum buttplate. For those who like open sights, there is one available which fits on the regular Springfield sight base, in place of the folding rear sight leaf.—A.H.B.

CRAMER BULLET LUBRICATOR AND SIZER

One of the first production Cramer bullet lubricators and sizers was sent to us for trial. This new tool has at least one unique addition not normally incorporated in a sizer and lubricator.

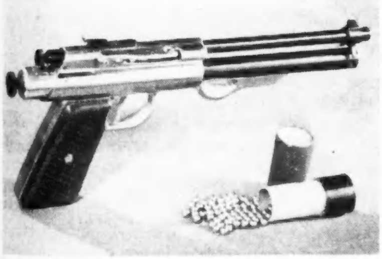
This addition is a special gas-check seater, which pivots on one of the guide rods of the lubricator. When turned to position under the sizing and lubricating die, a downward movement of the operating handle forces the gas check over the base of the bullet, thus insuring a solid snug fit which is more certain and more accurate than any other method of fitting the gas check. After the gas-check seater has done its job, it is swung to one side and the bullet is then sized and lubricated in the normal manner. This is a very well made sizer and lubricator. The sizer was illustrated in an ad on page 95 of THE AMERICAN RIFLEMAN for November, 1947.

Cramer can also supply bullet molds for an assortment of good-looking bullets in different calibers. The No. 49A in .30 caliber, weighing 170 grains, is quite accurate with 16.5 to 18.0 grains of No. 4759 powder and Cramer gas checkss when sized to .309- and .311-in diameter. A three-cavity mold for this bullet worked very well right from the beginning.—A. H. B.

APACHE .250 CALIBER AIR PISTOL

We have been doing a bit of basement shooting with the Apache Air Pistol, using an X-ring bullet trap to hold the targets and catch the bullets.

The pistol selling for $19.95 is a nice job, husky and powerful looking. It is 11/12 inches long, weighs a pound and a quarter, and has grooved wooden stocks and an adjustable rear sight.



Apache Air Pistol

The gun is a six-shot repeater, using lead balls 1/4 inch in diameter in a rifled barrel. There are two knurled knobs at the breech end. The lower one, the larger of the two, is the cocking knob. The upper one is the loading knob.

Air pressure is obtained by pumping a lever under the barrel, but first the lower or cocking knob must be pulled back to the first notch or safety position, otherwise the air escapes as it is pumped. From six to ten strokes of the pump are required.

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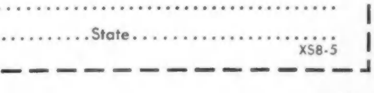

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GOOD NEWS

GET READY FOR CAMP PERRY AUGUST 8TH TO SEPTEMBER 4TH

We have been serving The Rifleman since the first Camp Perry 1907. Always dealing direct with The Shooter at reasonable prices. We are still doing business the same way.

Here are our specials for this month:

O'Hare Micrometer, used $4.00 --------new	$5.00
Locking Rear Sight Cover	1.00
Snap on Front Sight Cover	1.00
Perfection Score Book .30 Caliber	.50
One-piece, 30 Caliber Rod 1.00----jointed	1.25
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O'Hare Cleaning Patches ----box	.20
Sheepskin Shooting Mitt	1.00
Sheepskin Spotting Scope Covers for B&L draw type, N.R.A. Model, 65 mm. Argus Mossberg	2.50

Rifle Club orders for .22 Caliber, regular and match brands at special Club price. Remington and Winchester Target Rifles always available

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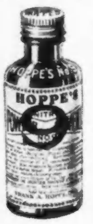
GUARD AGAINST GUN RUST WITH HOPPE'S No. 9



Use this efficient solvent to remove primer, powder, lead and metal fouling. Hoppe's No. 9 prevents rust by removing the causes of rust. At your dealer's or send us 10c for sample. Helpful "Gun Cleaning Guide" FREE upon request

FRANK A. HOPPE, Inc.
2321 North 8th St., Phila. 33, Pa.

Six bullets are carried in a magazine on the right side near the breech. After building up the pressure, the upper or loading knob is turned slightly to unlock it, and is then pulled to the rear, which allows the spring follower of the magazine to push a bullet into the chamber. To seat the ball, the loading knob is then pushed forward. Some resistance is encountered as the ball first bears against the rifling, but a further push causes the rifling to bite into the ball and seats it in the firing position so that the loading knob can be locked by a quarter-turn to the right.

The gun is now loaded and on safe. The cocking knob must be pulled back from the safe or half-cock position to full cock, before the trigger can be pulled.

When we first shot this gun at 10 yards indoors, we found that it takes at least three strokes of the pump to give enough pressure to project the ball from the barrel. With four strokes the gun fired a group about two inches in diameter, low and to the right. With five strokes, the group was tighter and higher. With six strokes, we got a good group near the bottom of the bull. With seven strokes the group tightened up considerably and went a little higher. With eight strokes, bullets were cutting into the same hole and hitting with considerable power.

We have fired the gun at boards and it delivers quite a wallop. At short ranges the big .250 caliber round ball should be deadly on small game of the order of rats and mice.—J. S. H.

SHAPING ENFIELD RECEIVER

Just about every article I have read describing the conversion of the Enfield seemed to dispose of the reshaping of the receiver with a stock phrase as follows: "The receiver may be reshaped to more pleasing outlines by grinding or filing," or words to that effect.

Did you ever try to grind a reasonable radius on a piece of iron free hand? I did. Not so hot.

I made up a jig of ¼-inch plywood and 1-inch pine boards, and it worked fairly well after I fastened a guide to the bench to help keep things in line. I had roughed most of the metal off free hand and used the jig to true up the receiver, taking light cuts.

More than a year ago I inquired about ways and means of altering the rifle to cock on opening and your department recommended Vickory's *Advanced Gunsmithing* but I hesitated to have any welding done on the bolt.—DONALD A. DOBIAS, Marysville, Calif.

Answer: I am quite certain that one reason you have noticed such general statements about the contour of the receiver is that there is a point of personal taste which fits the individual and would vary according to his own requirements when shaping that receiver bridge, except for certain receiver sights.

One reason we have not specifically given instructions for altering the cocking of the Enfield bolt is that unless satisfactorily done by a competent workman it is best to leave that part of the Enfield unaltered. I hesitate to recommend such alterations to members and feel that it is much better to have a gunsmith do it.—A. H. B.

CORRECTION: On page 52 of the March 1948 issue under Bluing Problems, the suggestion was to use 5% by weight of sodium nitride. That was an error as it should have been sodium nitrite.—A. H. B.

GUNSMITH TRADE DOPE

R. T. Mercer of G & M Industries, writes that he has been ill for some time and is, therefore, unable to make deliveries or repairs on the G & M single set trigger. Inquiries on the G & M trigger should not be made now, as a new supply will not be available for some time. Mr. Mercer asks his customers to be patient as he cannot possibly answer all correspondence at the present time.

☆ ☆ ☆

J. B. Smith, Middlebury, Vermont, is now ready to supply 6.5 mm. Mannlicher, .256 Newton, and Italian Carcano ammunition. These are loaded with 129- and 150-grain Modern Gun Shop bullets, which are doing very well according to Mr. Smith's customers. These bullets will be available to handloaders.

☆ ☆ ☆

Polley Brothers, 2711 Inwood Rd., Dallas, Texas, can supply well designed carbon steel bolt handles with plain or checkered knobs at reasonable prices. These are well shaped for low-mounted scopes, and ready to be welded to Springfield and Mauser bolts. They can also be welded to bolts for other rifles.

☆ ☆ ☆

The Terhaar Gun Works, 3108 Main St., Jacksonville, Florida, lists a kit containing the necessary parts for a Colt .45 A.C.P. accuracy job. At a cost of $10.00 plus an exchange of the original recoil spring plug and recoil guide buffer, the kit consists of an extra heavy barrel link, and barrel bushing. Later another kit will be available, consisting of a ventilated rib and sights for the .45.

☆ ☆ ☆

Forster Brothers, 3539 North Kenton Avenue, Chicago 41, Ill., are offering .30-06 headspace gauges in various sizes for $3.25 postpaid.

We obtained six of these gauges, in 1.940 inch, 1.942 inch, 1.944 inch, 1.946 inch, 1.948 inch, and 1.950 inch sizes.

We checked the length of each gauge, then compared the figures we got with the number on the gauge, and in each case the marking on the gauge agreed exactly with the check. We consider one of these gauges an excellent investment for anyone who is doubtful about the headspace of his rifle.

☆ ☆ ☆

Joseph J. Szczepanik, Englishtown, N. J., is offering semi-inletted, semifinished gunstocks of plain, dry walnut at a reasonable price. Some final inletting will be necessary for a finished job. The work is as well done as others in this price bracket.

☆ ☆ ☆

Remington Arms Company has prepared two new booklets of interest to the trap and skeet shooters. These booklets are: 1) *Handbook on Gun Club Organization* and 2) *Handbook on Gun Club Operation.* Judging from the questions we receive from 'clay bird' shooters, these booklets furnish a lot of much needed information, including an explanation of the handicap systems commonly used. Free copies can be obtained by writing to W. H.

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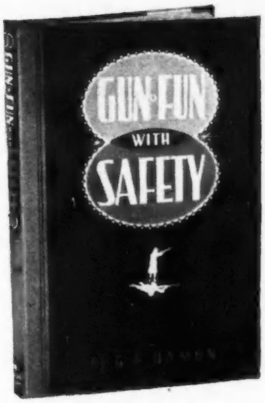

The pages of GUN-FUN WITH SAFETY provide a broad avenue to practical understanding of every type of sporting firearm and cartridge now in use in the field and on the target range. And to make appreciation of modern arms more complete, the author wisely devotes his first chapter to the beginnings and evolution of small arms. This is the book for the instructor, the young student, or the adult who seeks a rapid and pleasant introduction to the small arms subject. There are many illustrations.

G. E. Damon is a teacher by profession and a "guncrank" by avocation. His classes in marksmanship and kindred gun subjects at the Colorado State College of Education have proved a popular and constructive feature of that institution's teaching program. This book contains the best of his experience gained in teaching others the capable and safe handling of rifle, shotgun and handgun. The subject matter conforms throughout with the best thought and practices of the national shooters' associations, conservation groups, national youth organizations and manufacturers of firearms and ammunition.

The book's appendices are of great value, for they contain reference material that has hitherto reposed in widely scattered places. In that section one will find listed the suggestions for additional learning-aids—books, charts and motion pictures. Also readily available are the gun and hunting regulations of every state and Alaska, and the titles and addresses of the conservation departments. The glossary of shooting terms is unusually complete.

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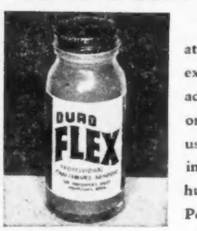

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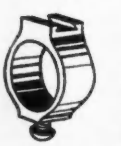

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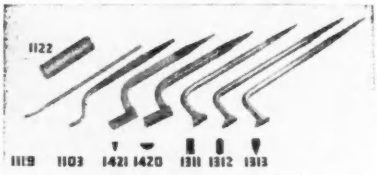

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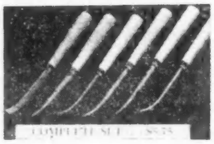

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SEAMLESS STEEL TUBING

This is the assortment given by Baker on page 55 of Modern Gunsmithing. Available in shop assortment kits consisting of all sizes shown with 5 light weight tubes in 12" length and 5 heavy weights in 6" length—
complete kit $11.50
(Send for shop card giving detailed prices)

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Shop assortment No. 1, 1-64" to 1-4" by 64ths	$ 2.16
Shop assortment No. 2, 17-64" to 3-8" by 64ths	3.10
Shop assortment No. 3, 25-64" to 1-2" by 64ths	5.73
Gunsmith deal—Kits No. 1, No. 2, No. 3	10.00

Foster, Jr., Manager, Trap and Skeet Section, Remington Arms Co., Bridgeport, Conn.

☆ ☆ ☆

Ithaca Gun Co., reminds gun owners that they should have their guns repaired when repairs are needed instead of waiting until the last minute before hunting season, as about 95 percent of the hunters usually do. It is then too late to have the guns serviced in time for the hunting season.

☆ ☆ ☆

Frank J. Wahl, 133 South Street, Bogota, N. J., has sent in sample of the Wahl's Thumsaver. Designed to fit the Woodsman and Hi-Standard pistols, this device eliminates slipping and sore thumbs experienced while loading. It fits over the button on the side of the magazine and pulls down the magazine follower so as to make loading easier. Unless care is used, the gadget may become lost or misplaced, but it is well worth the small cost of 25 cents.

BOOK REVIEWS

ARMS MAKERS OF THE CONNECTICUT VALLEY

By Felicia Johnson Deyrup

Arms Makers of the Connecticut Valley is unique in the field of arms literature. It is a thorough, scholarly study of the economic development of the small arms industry from 1798 to 1870. Although the scope of the volume is confined to the Connecticut valley, it should be noted that the region contained the Springfield Arsenal and the shops of the Norths, the Starrs, the Astons, the Pomeroys, the Whitneys, Colt, and almost all the other large arms manufacturers of the period. In addition, establishments outside the area are frequently mentioned for comparison.

Miss Deyrup's book is an economic study in the broadest sense. It is much more than a mere chart of costs and profits. The reader learns, for instance, where raw materials came from, how they were prepared for use, what companies made barrels for Whitney, Starr, and the Springfield Arsenal, the techniques used in inspecting arms, and the tricks by which the contractors tried to outwit the inspectors. The author is particularly interested in manufacturing techniques, and she includes excellent detailed descriptions on how the various parts of a gun were made, first by hand, and then with machine tools.

In addition to the text, there is a thirty-two page appendix of charts and graphs, a list of arms makers in the region from 1770-1870, an exhaustive bibliography, and the documentation for the text.

This is not a book for the collector who is primarily interested in information which will enable him to recognize specimens. There is one chapter on the technical development of small arms in the period which contains only very elementary information; some statements in it are open to question. On the other hand, the student of firearms who wants to learn all that he can about the background of his pieces will find this volume indispensable.—Harold L. Peterson.

(*Published by the Smith College Library, Northampton, Mass. 290 pages. Price $3.00. Order directly from Smith College Library Order Dept.*)

THE ARMS CHEST

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1. Rate: 25 cents per word including name and address—minimum charge $3.00. All advertisements must be accompanied by remittance, made payable to "National Rifle Association"—1600 Rhode Island Ave., Washington 6, D. C.

2. Closing Date: All advertisements must be received by not later than the 1st of the month preceding date of issue. (Example: the 1st of May for the June issue. Ads *received* after the 1st of May *and not later than the 1st of June* will be inserted in the July issue.)

3. Who May Advertise: Any individual or firm whose advertisements and methods of doing business meet our requirements may advertise their goods or services in the ARMS CHEST.

4. All Orders Subject to These Conditions: We reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

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6. Blind Ads Not Acceptable: Blind ads, with box numbers *only*, will not be accepted. Give your COMPLETE name and address, to insure prompt delivery of all mail or telegraph replies.

7. How to Count Numerals, Etc.: Groups of figures are counted as one word (example: .30-30, 250-3000, $150.00, $1.50). Abbreviations consisting of initials or single characters likewise are counted as one word (example: W. H. Smith; H. B., meaning heavy barrel; HP., meaning high-power). Hyphenated words are counted as two words (example: 20-gauge, pearl-handled, no-slip).

8. Responsibility for Illegible Copy: Type or print ads plainly, for we can not be responsible for errors due to illegible writing.

9. Firearms for Sale or Trade Must Be Properly Described: The *condition* of every gun (including essential parts) advertised for sale or trade, *must* be specified according to *NRA standards*, as follows: PERFECT—meaning factory condition; EXCELLENT—meaning new condition, implying negligible amount of use; VERY GOOD—meaning practically new condition; implying little use, with no appreciable bore wear and only minor surface scratches or wear; GOOD—meaning moderate use with some finish worn off, only moderate bore wear, with no pits and nothing worse than a little roughness in the bore; FAIR—meaning no parts missing necessary to use of gun, reasonable wear inside and out, nothing worse than minor pits in steel or stock, gun sufficiently accurate for hunting. POOR—meaning marred appearance and pitted or badly worn bore.

When price lists or descriptive catalogs are offered the *condition* of every weapon so listed must be properly described in accordance with these requirements.

10. Requesting Privilege of Examinations: We suggest that purchasers desirous of examining merchandise before acceptance request shipment by express C. O. D., with examination privilege. This procedure permits the purchaser to inspect the merchandise *in local express office* and authorizes the express company to return unsatisfactory merchandise at shipper's expense.

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MUZZLELOADING KENTUCKIES. GUNS, powder flasks; parts price list 10¢. Ollie Miller, 417 Kingston, Lemay, Missouri. 6-48.

A SERIES OF BULLETINS THRUOUT 1948 is offered to collectors and shooters of antique firearms. Price 50¢ for the series. House of Guns, 34 Alpine Place, Kearny, N. J. 5-48.

PRIMERS, WESTERN #3, IMPROVED, NON-corrosive $2.25 per M. Case of 5000 for $9.50. Demrick Sales Co., 1424 Grant Avenue, San Francisco 11, Calif. tf.

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ILLUSTRATED 156 PAGE CATALOG OF antique firearms and edged weapons 50¢. Robert Abels, R-860 Lexington Avenue, New York 21. 7-48.

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STEVENS-POPE TYPE PALM RESTS, $10.00. Chester Nikodym, Chagrin Falls, Ohio. 5-48.

BULLETS—.30M1 BOATTAIL, 3¢; .30M2, 2½¢; .30 A.P., 2¢. Minimum 100. Powder-Government, 60¢ pound. M.O. please. Paul Ratliff, Hillyard, Washington. 5-48.

SUN GLASSES. U. S. NAVY SURPLUS (brand new). Ideal for shooters. Comfortable fitting. ZYL re-enforced frames. Lenses ground and polished. Large size glass. In original Navy case. Worth $2.50. Our price $1.10 each or 5 pairs for $5.00 postpaid. Sorry no C.O.D.'s. Life Member N.R.A. Dept. F. Philip Jay Medicus, 18 Fletcher St., New York 7, New York.

W 52 HEAVY, A ACTIONS, TARGET STOCK, perfect in, excellent out, extra stock, very accurate, Lyman ext. rear, Vaver front, $100.00. O. Weissenborn, 67 Fleet St., Jersey City, N. J.

.25 MAGNUM USING POWELL-MILLER case. Enfield action, Winchester barrel, target stock, Lyman micrometer rear, 85 cases, mostly loaded. Very accurate long range Varmint rifle, excellent out, v.g. in, $175.00. With Alaskan and Redfield Junior attached, $235.00. Model 20 Savage, chambered .257. Receiver sight, v.g. out, good in, $60.00. With G-88 and Griffin-Howe mount, $135.00. John Nunly, 1478 Opdyke Road, Pontiac, Michigan.

PREWAR REMINGTON TWELVE SPORTSman v.g. Cutts compensated $83.00. Burt Rockwell, Hershey, Penna.

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***Your* copy instructions for July 'Arms Chest' must reach us not later than June 1st. For full instructions, see above.**

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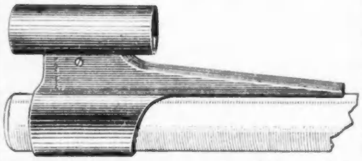

Special Announcement to Gunsmiths

"Pacific" Ramps are the most popular ever made. They come in the following sizes—.600—.616—.625—.635. Sold only in the white—attach them, then later blue the barrel and ramp at the same time and get a uniform job. Sold to gunsmiths at these special discount prices:

Ramp Cap $3.25

RAMP WITH SLOT IN HOOD			$3.75
Hood	$1.00	Ivory Bead	$1.00
Blade .050 thick	.30	Red Bead	1.00
Blade .100 thick	.60	Gold Bead	1.00

PACIFIC GUN SIGHT CO.
353 Hayes St., San Francisco 2, Calif.

YOUR MAUSER REBARRELED

to any of these calibers—22/250, 250 Sav., 257 Robts., 270 Win., 300 Sav., or 30/06—using Johnson, Adair or Buhmiller barrels.

$30.00 This includes fitting, headspacing, prooftest & crown muzzle.

Bls. turned your dim.	$5.00
Bolt altered lo-scope	7.50
Blue complete rifles	8.00

All types Scopes, Mounts and Sights available

VALLEY GUN SHOP Ambridge, Pennsylvania

38-40 WINCHESTER $8.00 PER 100. 44-40 Winchester $8.00 per 100. 16 gauge shotgun shells, Western Expert, #1 Buck, 500 shells to the case, $25.00 per case. 9mm. Flobert short ball rifle cartridges, rim fire, $3.00 per 100. .45 automatic pistol cartridges, late issue, $7.00 per 100, 146 grain. 30-06 F.A. Arsenal, 1936 cartridges, full patch, $7.50 per 100. 303 British metal point Winchester cartridges, late issue, $10.00 per 100. .38 Special 158 grain, factory load, $5.00 per 100. .38 Special, factory load 146 grain wadcutters, $4.50 per 100. .32 caliber long rimfire Kleanbore rifle cartridges, $3.50 per 100. .32 short rimfire Kleanbore rifle cartridges, $3.00 per 100. .25 Stevens rimfire Kleanbore rifle cartridges, $3.00 per 100. .22 Long rifle Super match #2, $6.50 per carton of 500. .22 W.R.F. rimfire cartridges, Kleanbore, $9.50 per carton of 500. 45-70-405 grain black powder rifle cartridges, $10.00 per 100. 30-40 Krag soft point rifle cartridges, $12.50 per 100. 30-40 Krag blank cartridges, $11.50 per 100. 10 ga. blank shotgun shells, $9.00 per 100. 351 Winchester S.L. cartridges, $8.50 per 100. All ammunition available for immediate shipment. 50¢ extra charge for all shipments of ammunition as same must be packed in wood container Interstate Commerce Regulation. Forward money order. No C.O.D. shipments. Send coin, $1.50 for Third Annual Edition of Gun Digest together with our complete catalog of new and used guns, ammunition, rifles, binoculars and powder flasks. Our separate catalog 25¢. Public Sport Shops, Dept. R-75, 11 So. 16th Street, Philadelphia, Penna.

ALL LYMAN RELOADING TOOLS, TELEscopes, sights in stock, components Sisk bullets. Reloading all .22 calibers. Stamp appreciated. M. Pecha, Acushnet Ave., Worcester, Mass. 5-48.

USED RIFLES, SHOTGUNS AND HANDguns. Ammo. Self addressed, stamped envelope will bring you my price list. Asa Gallupe, Fort Fairfield, Maine. 6-48.

CUSTOM .22 HORNET, BALLARD ACTION, set triggers, Buhmiller heavy barrel, 29S scope, Redfield mount, shoots in min of angle, perfect in & out, sizing die, 144 factory loads, 43 empties, 300 primers, 17 bullets, $125.00. J. W. Tabor, 2104 W. 72nd St., Chicago, Illinois.

1947 STANDARD WINCHESTER M70 .30-06, G-88 2½X Redfield Jr. Leather caps and case. Excellent to perfect. M.O. $180.00. Glenn Smock, Life, Box 383, Las Animas, Colorado.

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30-06 SPRINGFIELD SPORTER, HIGH NUMber, 330 Weaver scope, Redfield Jr. mount, Monte-Carlo stock, 26″ barrel, excellent condition in and out $120.00. Ross Wagner, Good Hope, Illinois.

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INVENTORS—PATENT LAWS ENCOURAGE the development of inventions. Write for further particulars as to patent protection and procedure and "Invention Record" form at once. No obligation. McMorrow, Berman & Davidson, Registered Patent Attorneys, 2513 Victor Building, Washington 1, D. C.

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3250 ft. per sec. with 41 gr. 3050 ft. with 45 gr. bullets, $5.00 rechambers your Hornet to K-Hornet, most efficient shell for its size ever developed. Your mag. altered $2.00. Win. S.S. breech blocks bushed, firing pins altered $7.00. Barreling, chambering for K-Lovell, K-Zipper, K-220 Swift.

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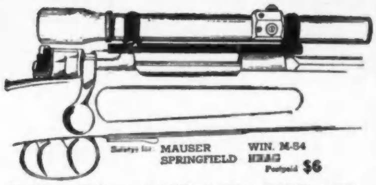

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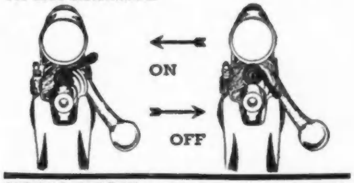

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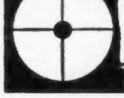

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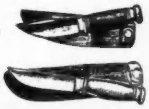

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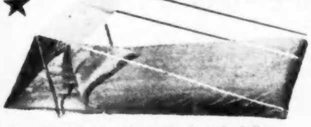

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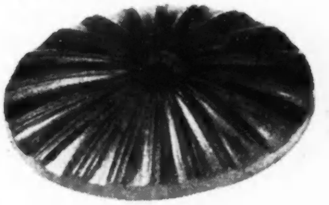

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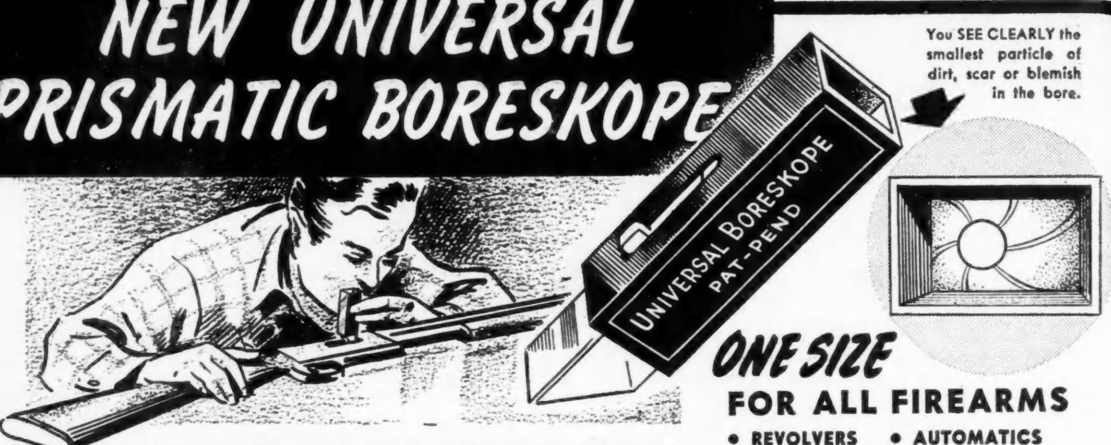

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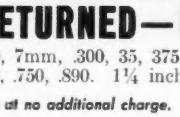

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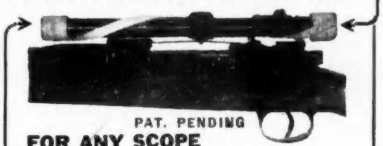

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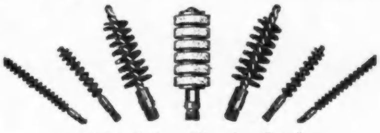

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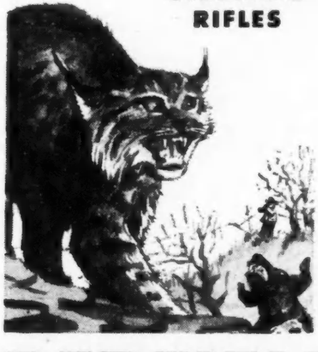

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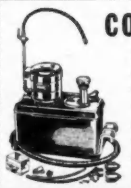

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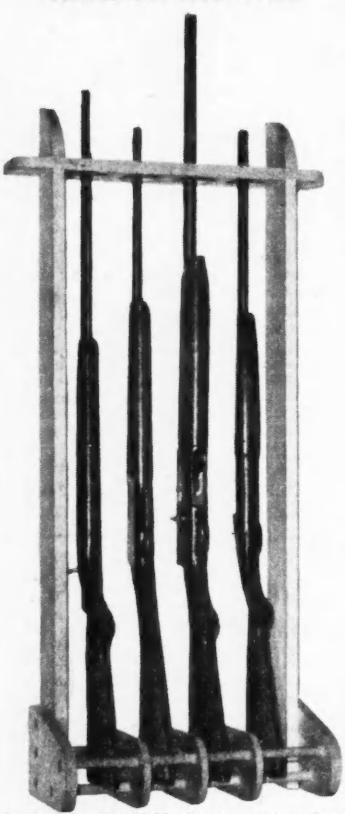

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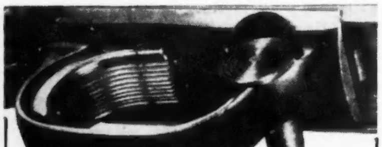

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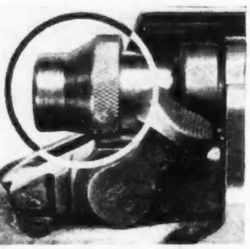

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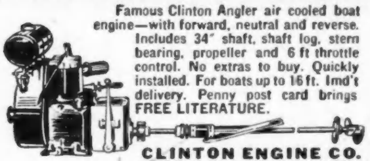

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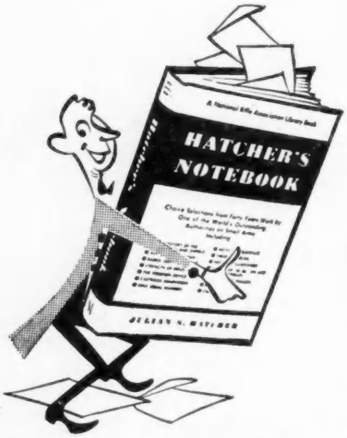

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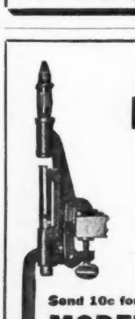

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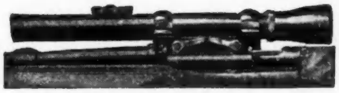

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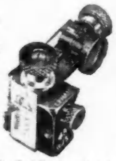

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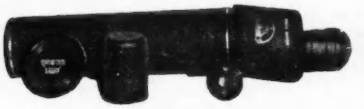

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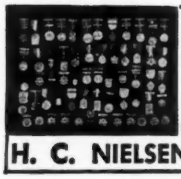

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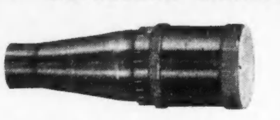

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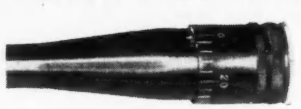

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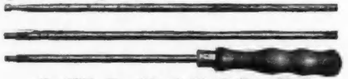

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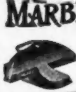

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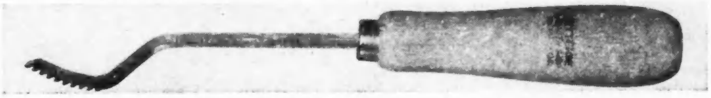

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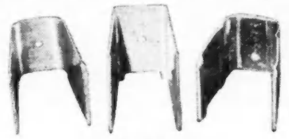

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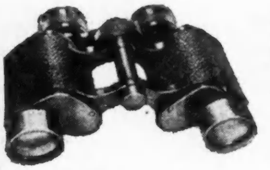

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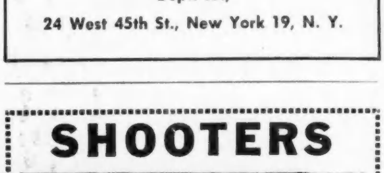

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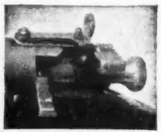

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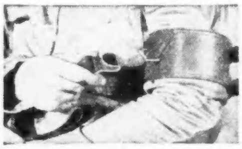

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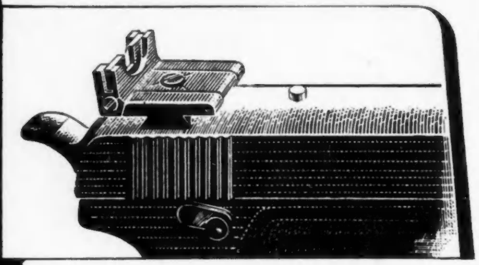

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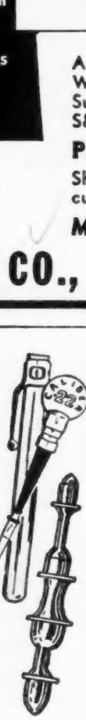

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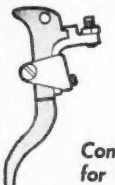

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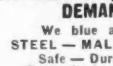

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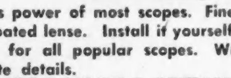

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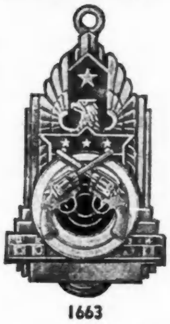

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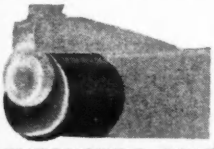

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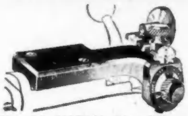

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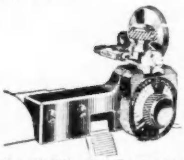

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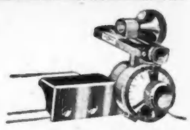

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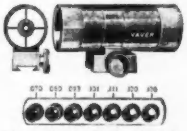

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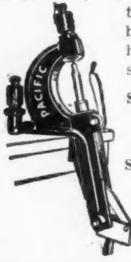

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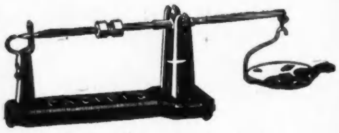

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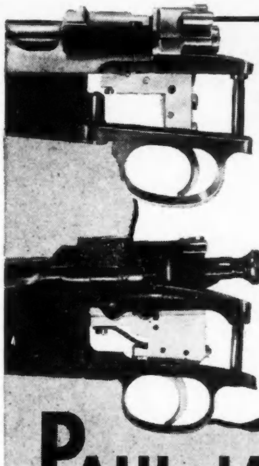

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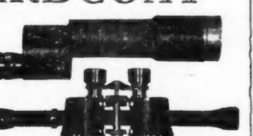

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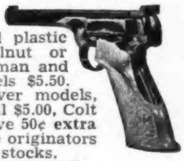

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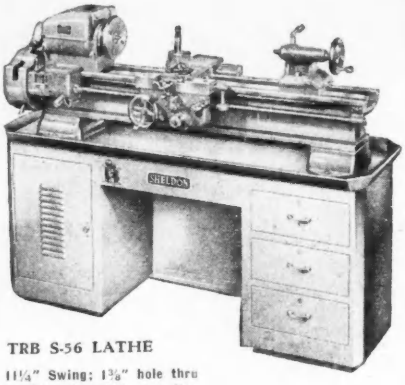

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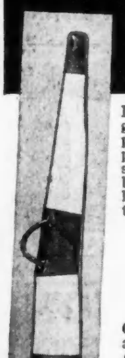

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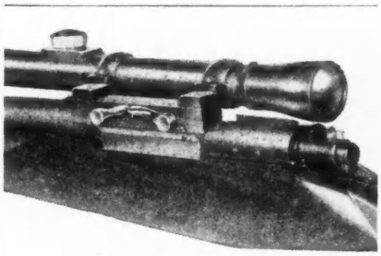

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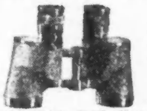

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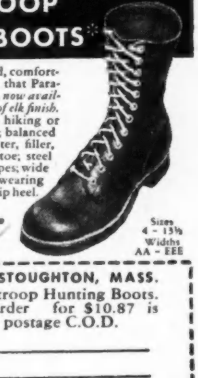

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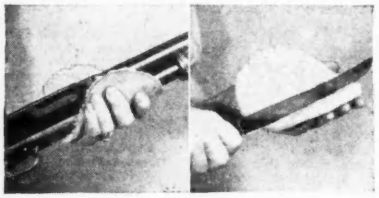

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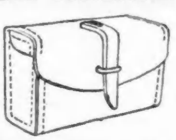

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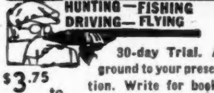

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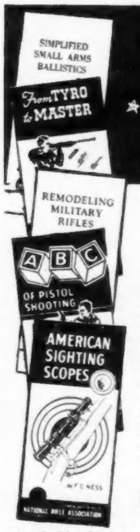
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TRADE—LIST OF MODERN AND ANTIQUE guns, 10¢. Swap excellent .45 Colt Commercial auto. Audley holster, for excellent .45 Colt SAA, grips or barrel length no object, bore must be excellent. McCool Gun Co., Henryville, Penna.

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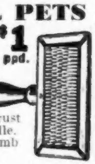

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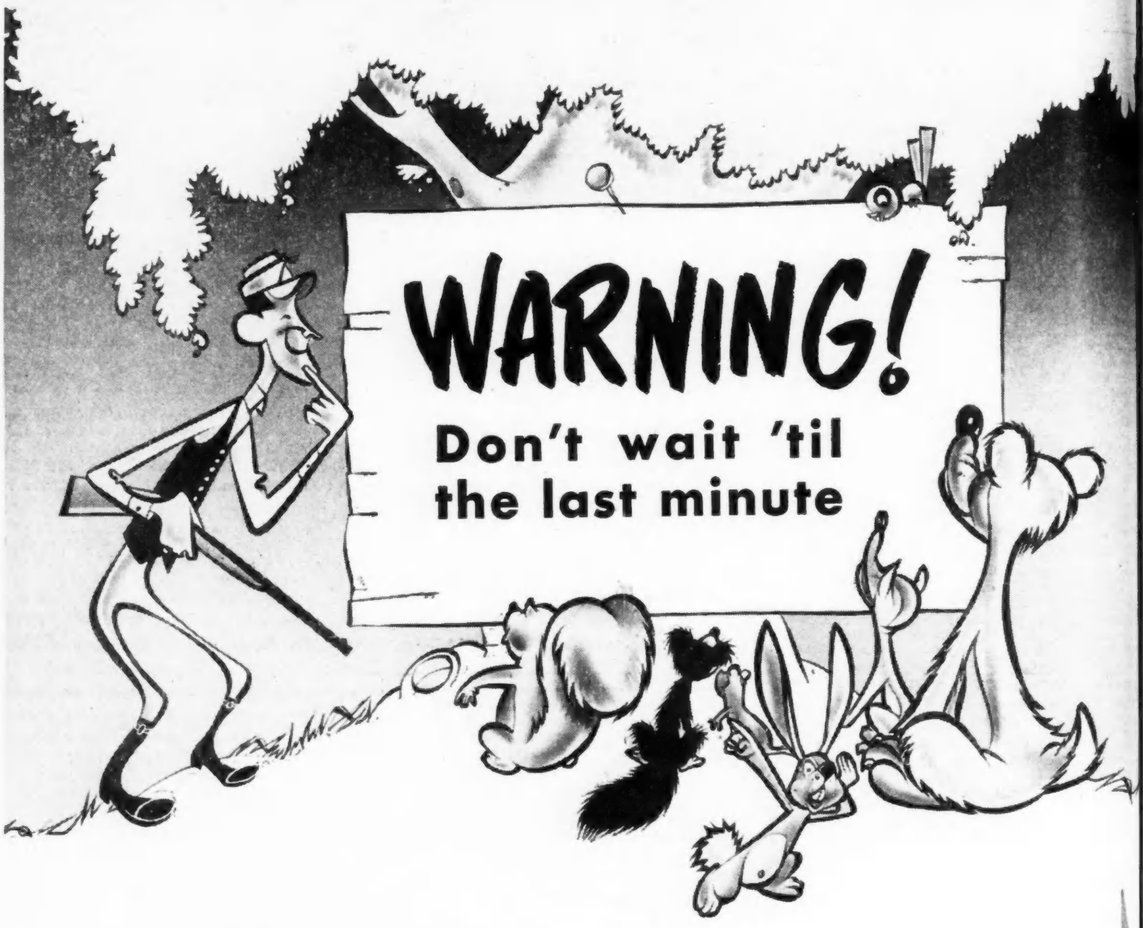
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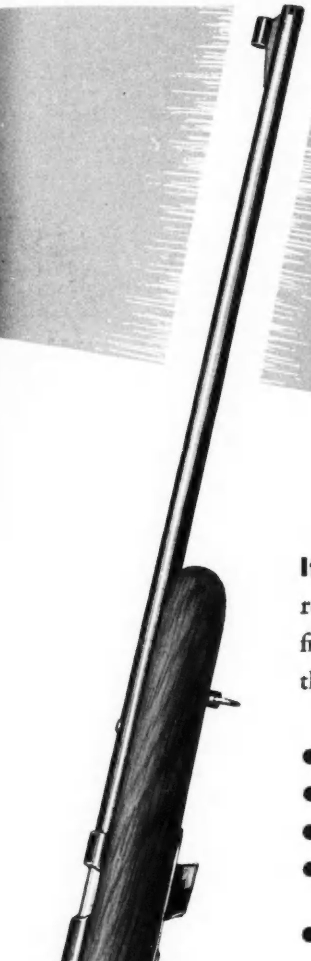

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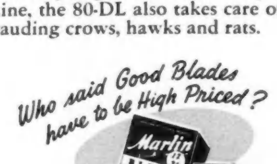
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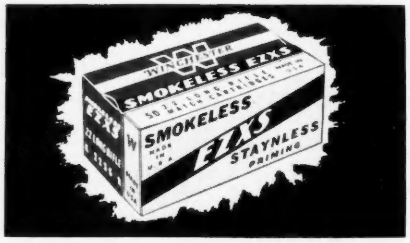

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